



WHO-FIC COLLABORATING CENTRE @ SAMRC

presents

Improving Cause of Death Reporting:

Knowledge Hub online course launch

- **An Introduction to the ICD and its use in mortality statistics**

April 2026

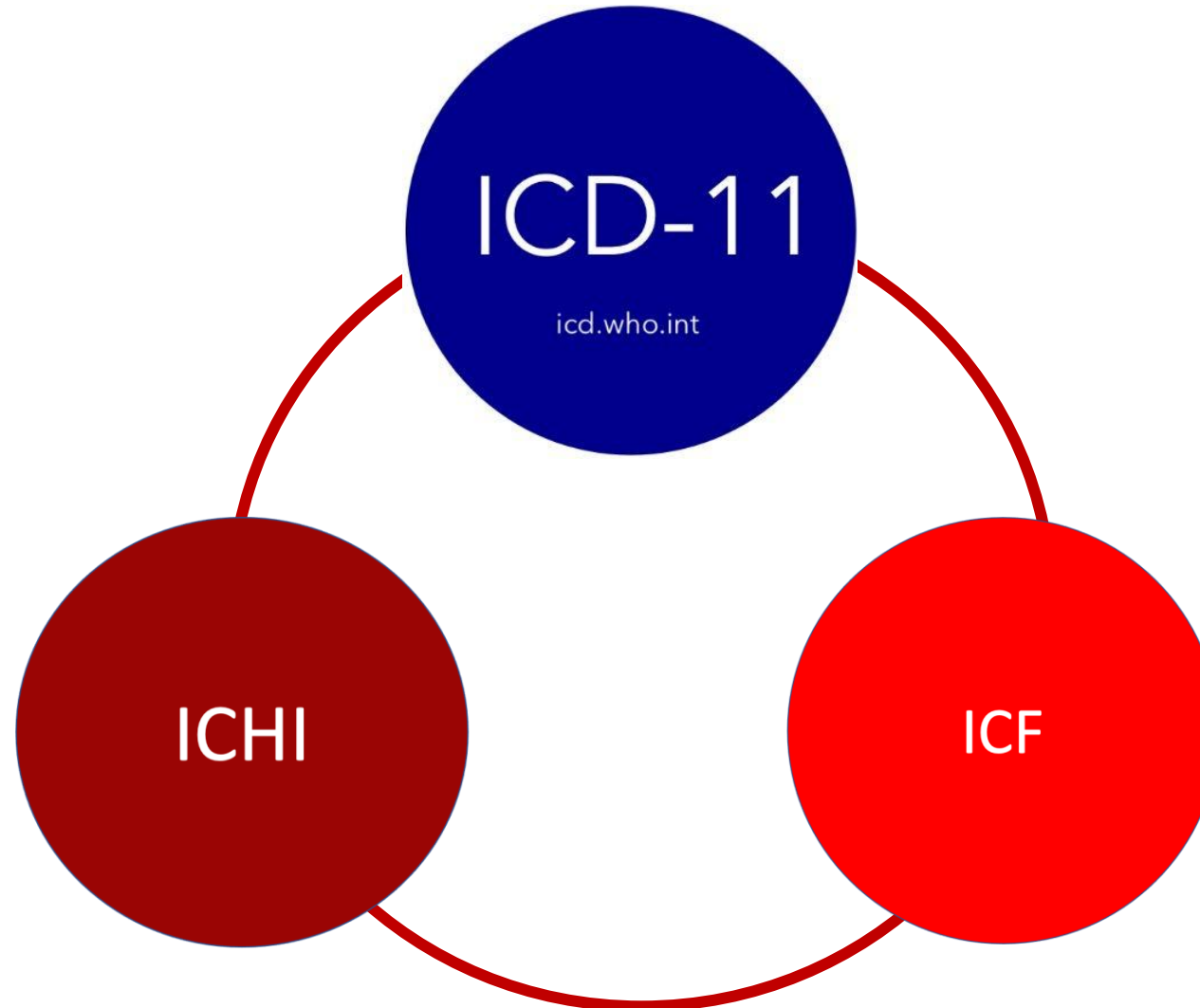
WHO Family of International Classifications

- WHO-FIC:

Classification tools that are used to compile and compare health information

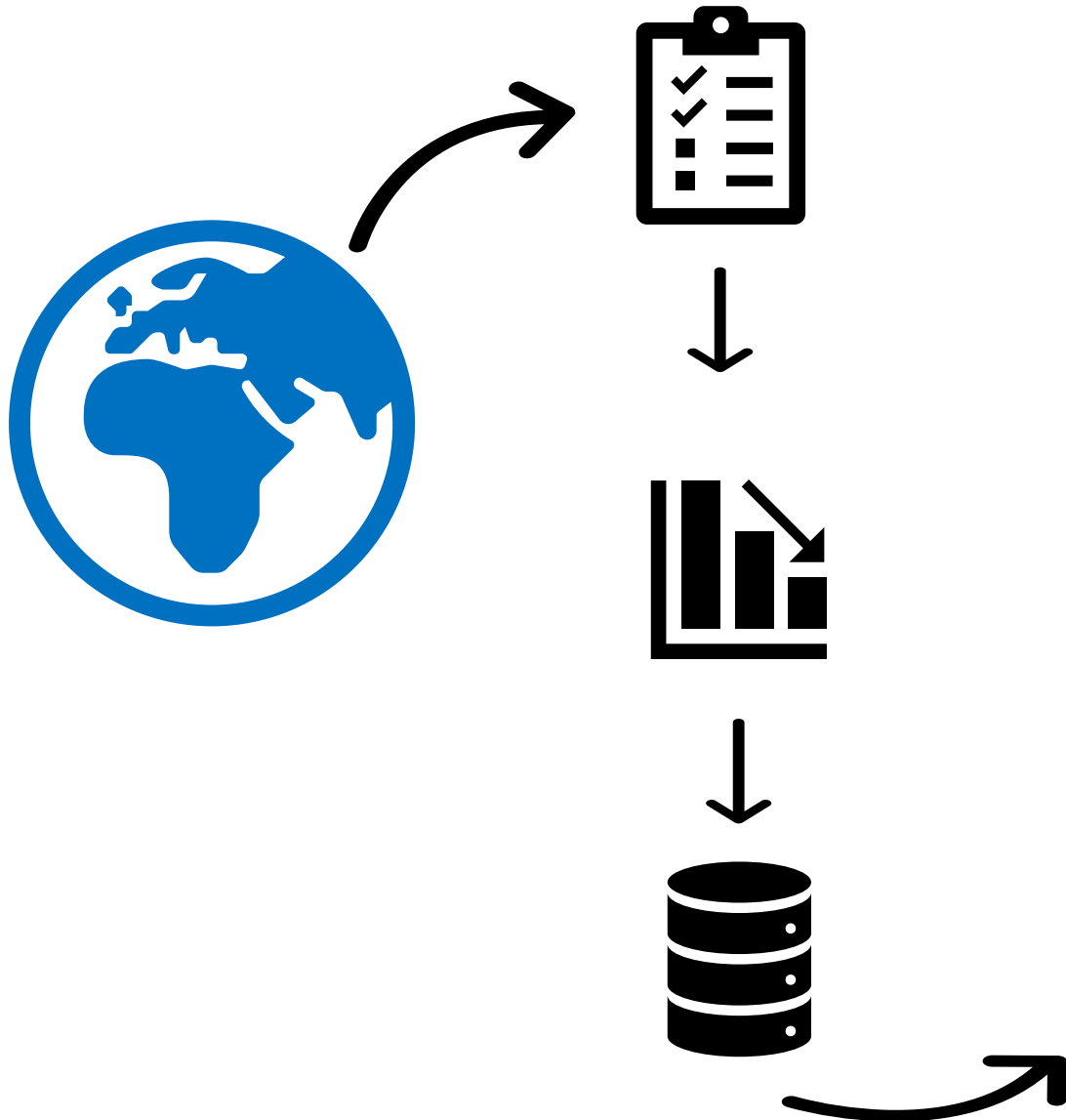


WHO Family of International Classifications



The WHO-FIC network is responsible for the development, maintenance and updating of the WHO classifications

International Classification of Diseases, 11th revision (ICD-11)



Purpose of ICD

- Translates written diagnoses of diseases and other health related problems into an *alphanumeric code*

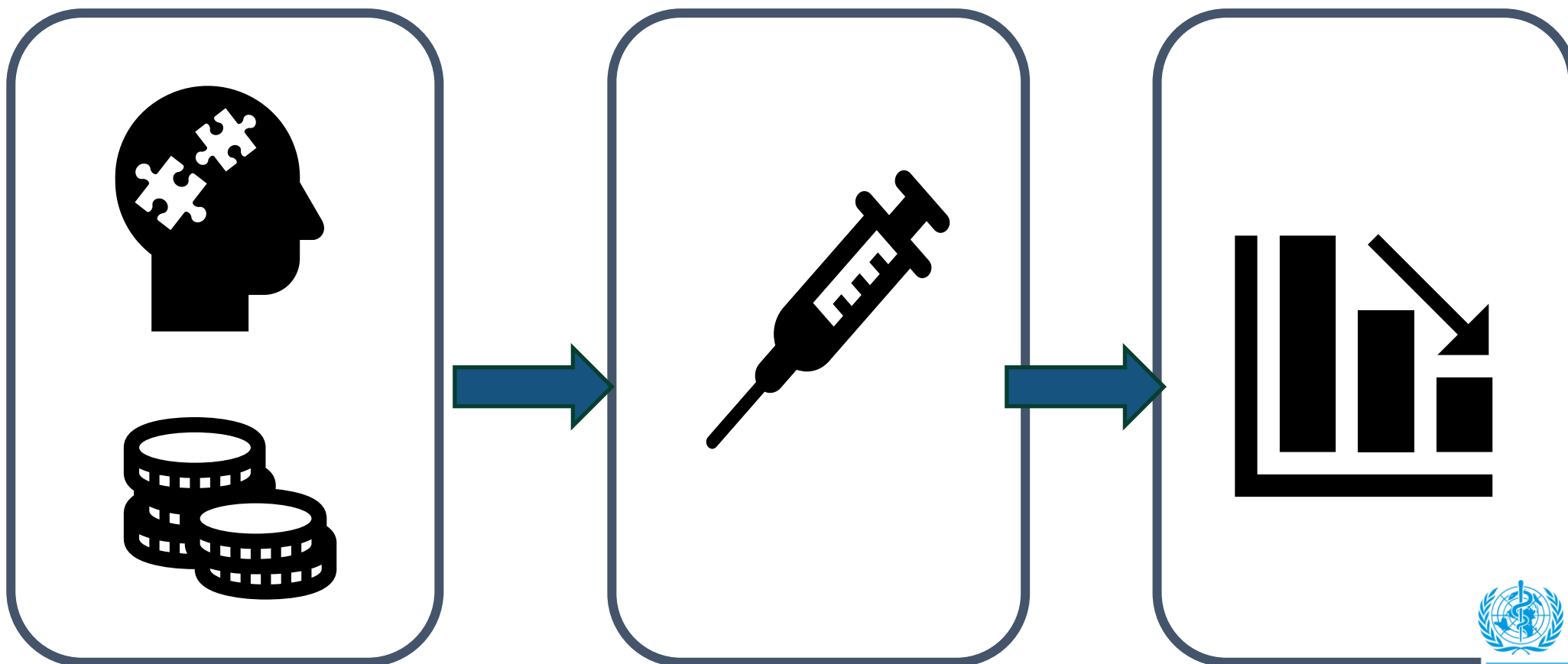
Diabetes Mellitus



5A14

Purpose of ICD

Provides the basis for compiling national mortality and morbidity statistics



Death registration: Flow of information



Data processing
ICD-10 coding
Analysis
Report writing
Dissemination
Archiving

What YOU write is used to compile our national statistics

STATS SA
STATISTICS SOUTH AFRICA

STATISTICAL RELEASE
P0309.3

Mortality and causes of death in South Africa, 2016:
Findings from death notification

Embargoed until:
27 March 2018
11:30

ENQUIRIES: Use Information Services Tel: 012 310 8600

FORTHCOMING ISSUE: 2017

EXPECTED RELEASE DATE: February 2019

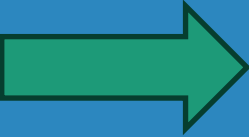
www.statssa.gov.za



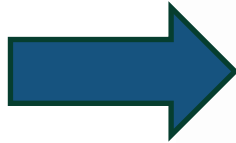
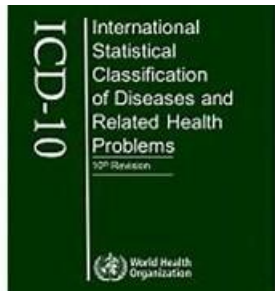
International Medical Certificate of Cause of Death Form – FRAME A

Frame A: Medical data: Part 1 and 2					
1 Report disease or condition directly leading to death on line a Report chain of events in due to order (if applicable) State the underlying cause on the lowest used line		Cause of death	Part 1: Causal Sequence	Time interval	
		a	Immediate cause		
		b	Intermediate cause		
		c	Intermediate cause		
		d	Underlying cause		
2 Other significant conditions contributing to death (time intervals can be included in brackets after the condition)		Part 2: Co-existing conditions that contributed to death, but do not fit into causal sequence in Part 1			

“The disease or injury which initiated the train of morbid events leading directly to death,”

ICD-10  ICD-11

ICD-11 Key features:



New terminology/methods

&

Updated content

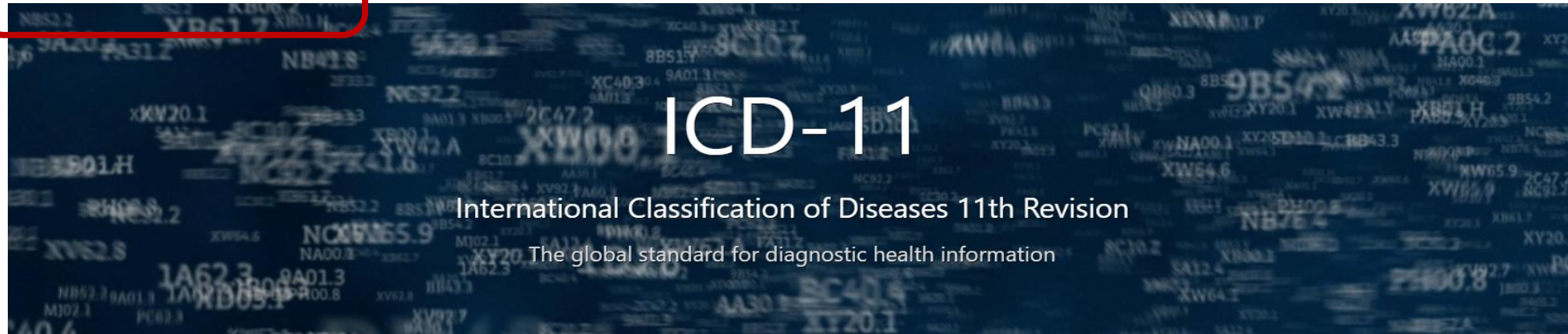
ICD-11 Foundation Component

ICD-11 Key features:

- Entirely digital
- Contains around 17,000 unique codes, more than 120,000 codable terms
- Smart coding algorithm
- Online and offline functionality
- Multilingual



<https://icd.who.int/en>



ICD-11 browser and coding tool; the release (blue) version

Use ICD-11

[ICD-11 Browser](#)

for seeing the content

[ICD-11 Coding Tool](#)

for coding with ICD-11

[ICD-API](#)

web services to get programmatic access to ICD-11

[ICD-11 Implementation or Transition Guide](#)

Learn More

[ICD Home Page](#)

[ICD-11 Reference Guide](#)

[ICD-11 Fact Sheet](#)

[ICD-11 License](#)

[ICD-11 Training](#)

[ICD Video](#)

[Older versions](#)

[ICD-10 Browser](#)

Be Involved

Our [maintenance platform](#) provides various ways to contribute

[Comments](#)
[Proposals](#)
[Translations](#)

ICD-11 Electronic Tools: Coding tool

https://icd.who.int/ctt11/icd11_ms/en/release

The screenshot displays the ICD-11 Coding Tool interface. At the top, it says "ICD-11 Coding Tool" and "Mortality and Morbidity Statistics (MMS) 2022-02". A search bar contains the word "malaria". Below the search bar, it says "Guessing the word being typed...". There are two columns of results: "Word list" and "Destination Entities".

Word list	Destination Entities
malaria	1F45 Malaria without parasitological confirmation
malariae	1F4Z Malaria , unspecified
malarial	1F42.Z Plasmodium malariae malaria without complication
	1D02.3 Parasitic myelitis Myelitis due to malaria
	1F40.Z Malaria due to Plasmodium falciparum, unspecified
	1F40.0 Plasmodium falciparum malaria with cerebral complications
	1F42.0 Plasmodium malariae malaria with nephropathy
	1F43 Malaria due to Plasmodium ovale
	1F44 Other parasitologically confirmed malaria
	DB90.Y Other specified infectious liver disease Malarial hepatopathy

To find a code, start searching with the
Coding Tool

ICD-11 Electronic Tools: Browser

Search →

Browsing hierarchy →

ICD-11 for Mortality and Morbidity Statistics (Version : 02/2022)

Search [Advanced Search]

[Browse](#) **Coding Tool** [Special Views](#) [Info](#)

- ICD-11 for Mortality and Morbidity Statistics
 - 01 Certain infectious or parasitic diseases
 - Gastroenteritis or colitis of infectious origin
 - Predominantly sexually transmitted infections
 - Mycobacterial diseases
 - Certain staphylococcal or streptococcal diseases
 - Pyogenic bacterial infections of the skin or subcutaneous tissues
 - Certain zoonotic bacterial diseases
 - Other bacterial diseases
 - Human immunodeficiency virus disease
 - Viral infections of the central nervous system
 - Non-viral and unspecified infections of the central nervous system
 - Dengue
 - Certain arthropod-borne viral fevers
 - Certain zoonotic viral diseases
 - Certain other viral diseases
 - Influenza
 - Viral hepatitis

Foundation URI : <http://id.who.int/icd/entity/579583286>

1F40 Malaria due to Plasmodium falciparum

Parent

Malaria

Description

A disease caused by an infection with the protozoan Plasmodium falciparum, present with splenomegaly, anaemia, thrombocytopenia, and fever. This disease is caused by Plasmodium falciparum in a blood sample.

Coded Elsewhere

- Congenital falciparum malaria (KA64.1)

Coding Note

Includes mixed infections of Plasmodium falciparum with any other Plasmodium species.

- User Guide
- Print Versions
- ICD-11 Reference Guide
- Spreadsheet File
- ICD-10 / ICD-11 mapping Tables
- ICD-11 Maintenance, Contributions, Proposals
- ICD Home Page
- Earlier releases and Update history

It is recommended that coding begins with the **Coding Tool**

ICD-11 Conventions: Stem Codes & Extension Codes

▼ Diabetes mellitus

- ▶ 5A10 Type 1 diabetes mellitus
- ▶ 5A11 Type 2 diabetes mellitus
- ▶ 5A12 Malnutrition-related diabetes mellitus
- ▶ 5A13 Diabetes mellitus, other specified type
- ▶ 5A14 Diabetes mellitus, type unspecified
- ▶ Acute complications of diabetes mellitus

← Stem code

ICD-11 Conventions: Postcoordination

ICD-11 Coding Tool

Mortality and Morbidity Statistics (MMS)
2025-01

Help

diabetes mellitus type 1 with kidney disease



Guessing the word being typed...

Selected: GB61.Z/5A10

Filter

Word list

sort: **Relatedness/repetition**

disease

Destination Entities

sort: **Matching score**

GB61.Z/5A10 Chronic **kidney disease**, stage unspecified [**Type 1 diabetes mellitus**]

Matching Terms	Postcoordination
Chronic kidney disease , stage unspecified [Type 1 diabetes mellitus]	+
Chronic kidney disease [Type 1 diabetes mellitus]	+
CKD - [chronic kidney disease] [Type 1 diabetes mellitus]	+

Related categories in maternal chapter

Renal failure following abortion, ectopic or molar pregnancy / Chronic kidney disease, stage unspecified (JA05.4/GB61.Z)

Related categories in perinatal chapter

Congenital renal failure (KC01)

See in hierarchy

- GB61.0/5A10 Chronic **kidney disease**, stage 1 [**Type 1 diabetes mellitus**] [Details]
- GB61.0/5A14 Chronic **kidney disease**, stage 1 [**Diabetes mellitus, type unspecified**] [Details]
- GB61.Z/5A13 Chronic **kidney disease**, stage unspecified [**Diabetes mellitus, other specified type**]
Chronic **kidney disease** [Other specified **Diabetes mellitus**, not **Type 1** and not **Type 2**] [Details]
- GB61.0/5A13 Chronic **kidney disease**, stage 1 [**Diabetes mellitus, other specified type**] [Details]
- GB61.0/5A11 Chronic **kidney disease**, stage 1 [**Type 2 diabetes mellitus**] [Details]
- GB61.1/5A10 Chronic **kidney disease**, stage 2 [**Type 1 diabetes mellitus**] [Details]
- GB61.2/5A10 Chronic **kidney disease**, stage 3a [**Type 1 diabetes mellitus**] [Details]
- GB61.4/5A10 Chronic **kidney disease**, stage 4 [**Type 1 diabetes mellitus**] [Details]
- GB61.1/5A13 Chronic **kidney disease**, stage 2 [**Diabetes mellitus, other specified type**]
Chronic **kidney disease**, stage 2 [Other specified **Diabetes mellitus**, not **Type 1** and not **Type 2**] [Details]
- GB61.3/5A10 Chronic **kidney disease**, stage 3b [**Type 1 diabetes mellitus**] [Details]
- GB61.2/5A13 Chronic **kidney disease**, stage 3a [**Diabetes mellitus, other specified type**]
chronic **kidney disease** stage 3 NOS [Other specified **Diabetes mellitus**, not **Type 1** and not **Type 2**] [Details]
- GB61.4/5A13 Chronic **kidney disease**, stage 4 [**Diabetes mellitus, other specified type**]
Chronic **kidney disease**, stage 4 [Other specified **Diabetes mellitus**, not **Type 1** and not **Type 2**] [Details]
- GB61.3/5A13 Chronic **kidney disease**, stage 3b [**Diabetes mellitus, other specified type**]
Chronic **kidney disease**, stage 3b [Other specified **Diabetes mellitus**, not **Type 1** and not **Type 2**] [Details]

Postcoordination is the assignment of multiple codes to describe a clinical concept

Postcoordination

- **Postcoordination:** combining two or more codes:



Chronic Kidney Disease due to Type 1 Diabetes
Mellitus

Postcoordination

ICD-11 Coding Tool

Mortality and Morbidity Statistics (MMS)
2025-01

diabetic retinopathy



Guessing the word being typed...



Filter

Word list

sort:

Destination Entities

sort:

retinopathy

9B71.0Z	Diabetic retinopathy , unspecified *	[Details]
9B71.01	Proliferative diabetic retinopathy	[Details]
9B71.00	Nonproliferative diabetic retinopathy	[Details]
9B71.00&XS25	Severe nonproliferative diabetic retinopathy	[Details]
9B71.00&XS5W	Mild nonproliferative diabetic retinopathy	[Details]
9B71.00&XS0T	Moderate nonproliferative diabetic retinopathy	[Details]
9B71.Y	Other specified retinopathy Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy	[Details]
9C61.32/9B71.01	Secondary angle closure glaucoma by neovascular membrane due to diabetic retinopathy	[Details]



Postcoordination

9B71.OZ Diabetic retinopathy, unspecified

Code: 9B71.OZ&XK9J

Selected term

Diabetic retinopathy, unspecified Foundation URL: <http://id.who.int/icd/entity/1006882070>

Exclusions from above levels [Show all \[6\]](#) ▾

Coding Note

Always assign an additional code for diabetes mellitus.

Postcoordination ?

Laterality **XK9J** Bilateral **X**

Has causing condition *(code also)*

search in axis: Has causing condition

- 5A10 Type 1 diabetes mellitus
- 5A11 Type 2 diabetes mellitus
- 5A12 Malnutrition-related diabetes mellitus
- ▷ 5A13 Diabetes mellitus, other specified type
- 5A14 Diabetes mellitus, type unspecified

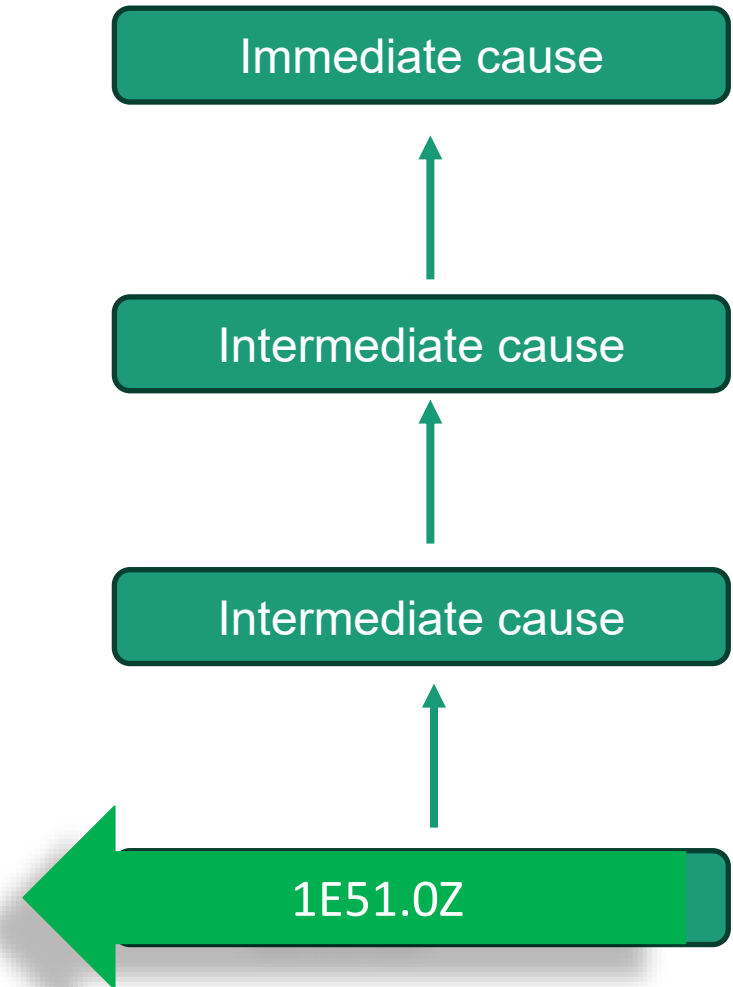
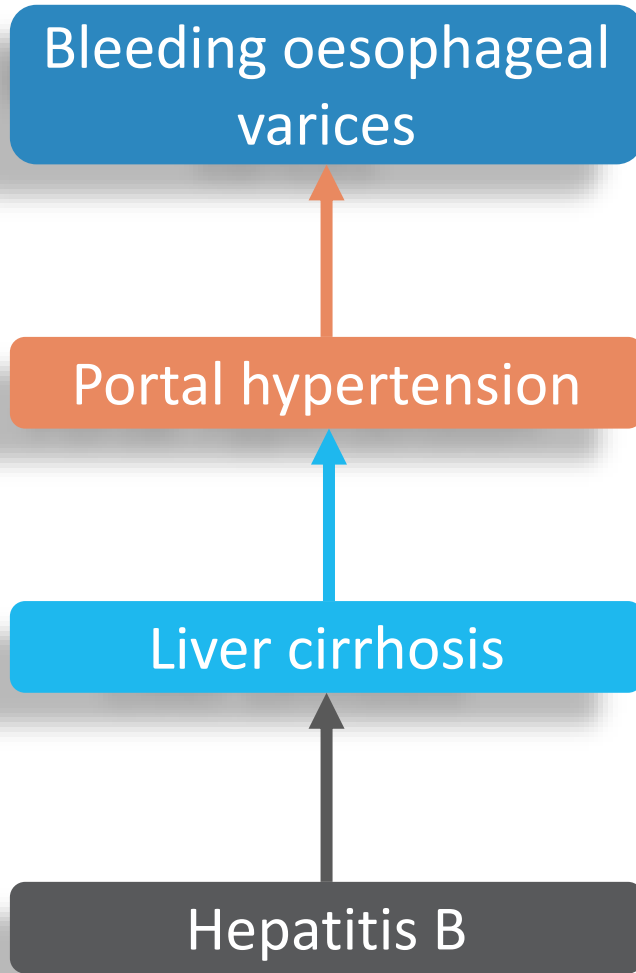
Laterality *(use additional code, if desired.)*

- XK9J** Bilateral
- XK8G Left
- XK9K Right
- XK70 Unilateral, unspecified



Cause of Death coding using ICD- 11

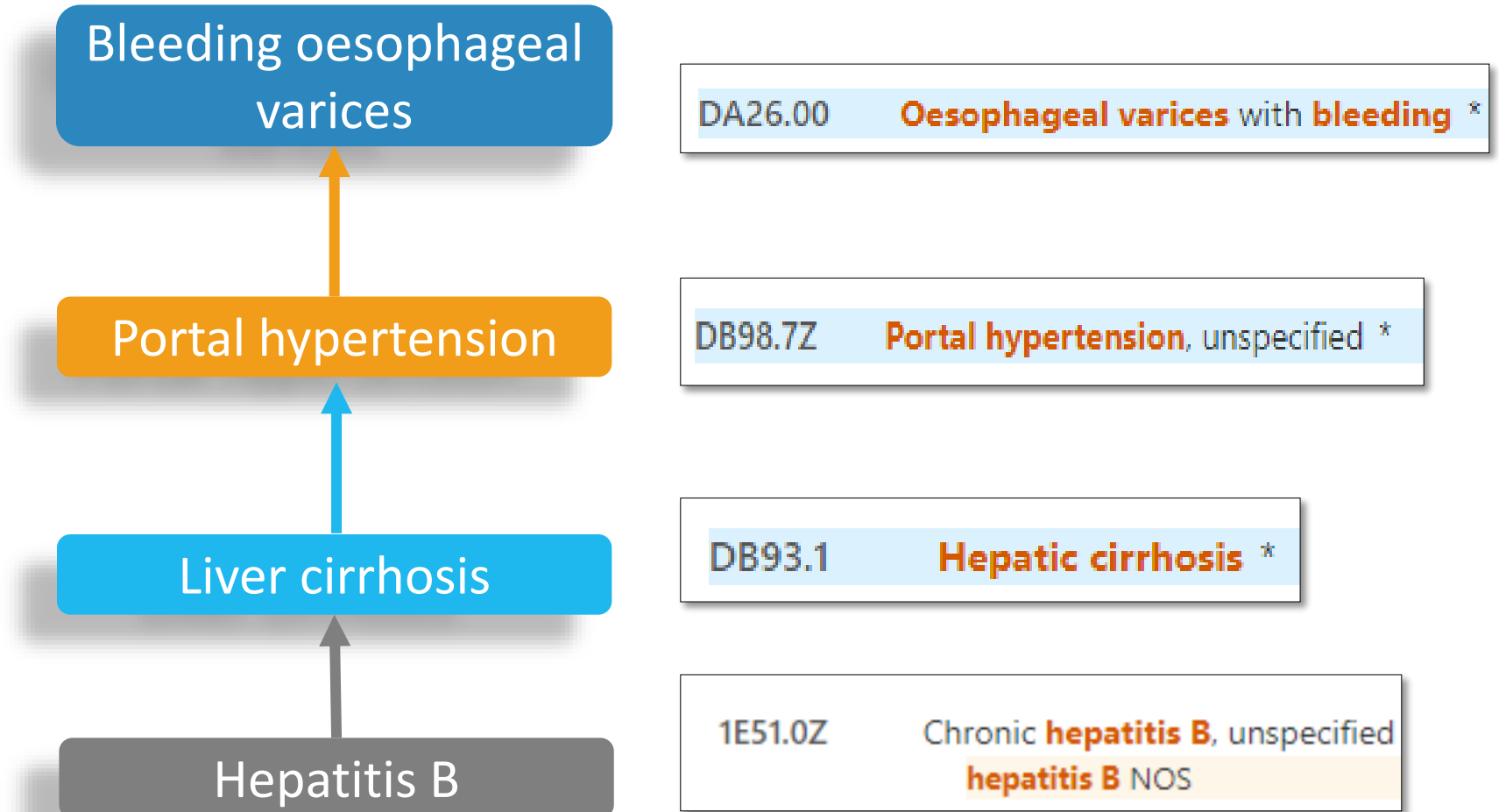
Causal Sequence



Coding Instructions for Mortality

First step:

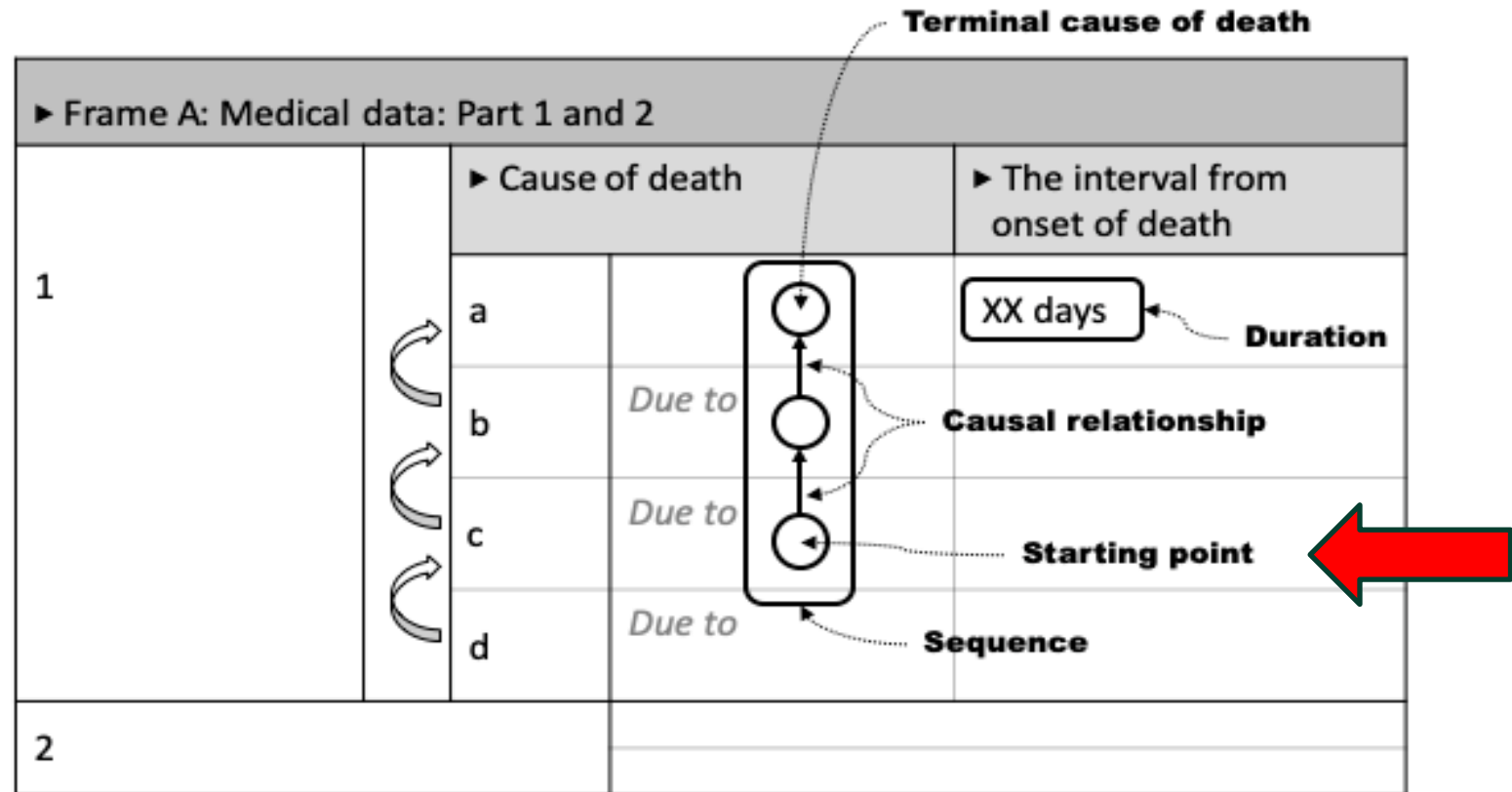
Assign ICD codes to all the diseases or conditions documented on the certificate



Selecting the Underlying Cause of Death

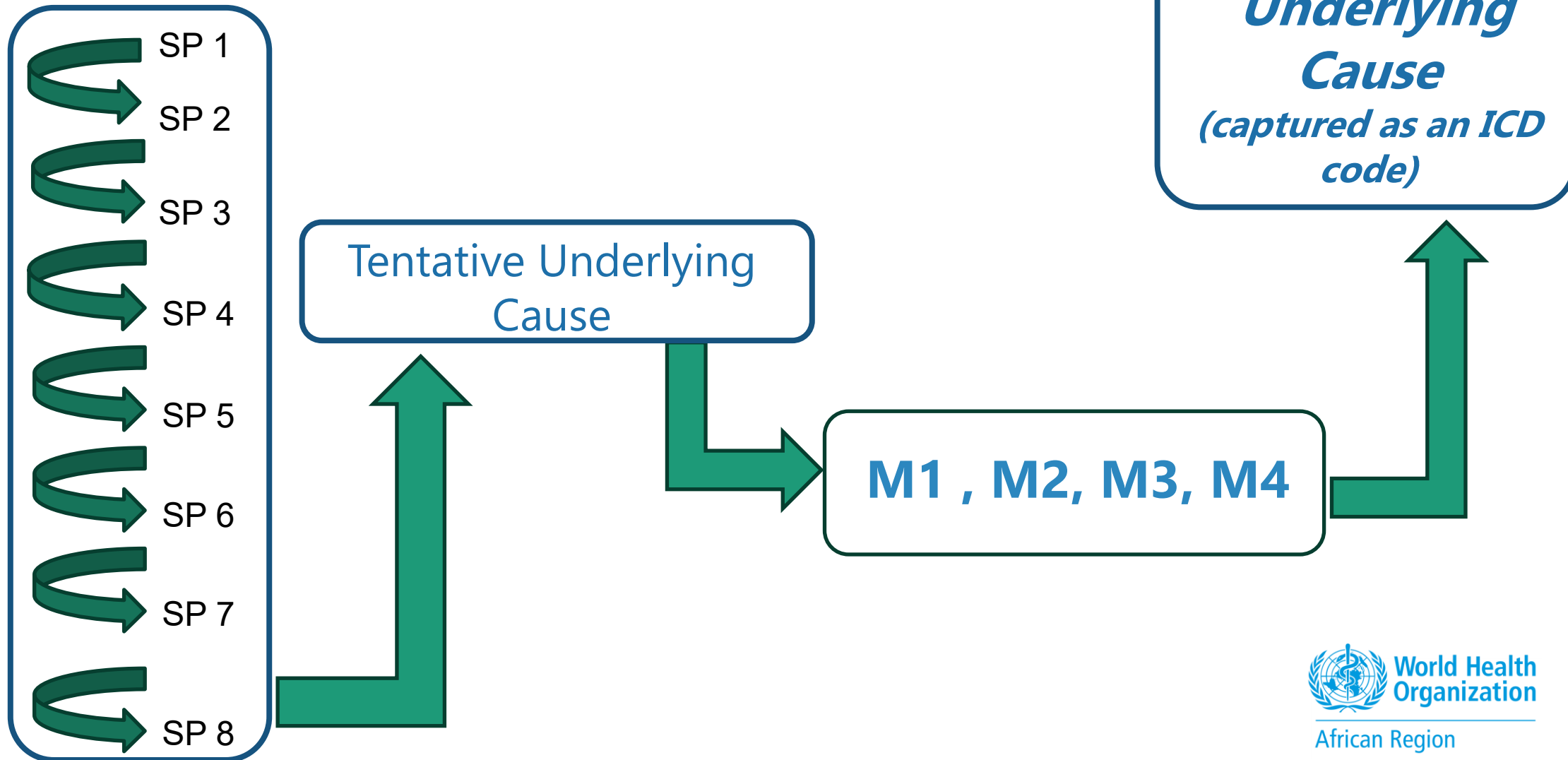
Second step:

- Check the MCCD against 12 coding rules (SP1-SP8 & M1-M4)



Mortality Coding Rules – Checking for Modifications

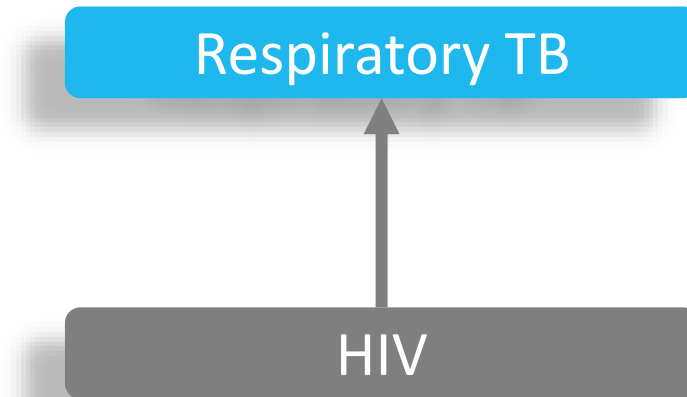
Steps:



Coding Instructions for Mortality

Example:

A 38 yr old male presents with 4 week history of night sweats, cough and now haemoptysis. He is known to be living with HIV but is not on treatment. He dies on day 2 of his admission.



1B10.Z Respiratory tuberculosis, without mention of bacteriological or histological confirmation
respiratory TB - [tuberculosis] *

1C62.Z Human immunodeficiency virus disease without mention of tuberculosis or malaria, clinical stage unspecified
HIV - [human immunodeficiency virus infection] *

UCOD



1C60.Z Human immunodeficiency virus disease associated with tuberculosis, clinical stage unspecified *



The South African Medical Research Council
recognizes the catastrophic and persisting consequences of colonialism
and apartheid, including land dispossession and the intentional imposition
of educational and health inequities.

Acknowledging the SAMRC's historical role and silence during apartheid,
we commit our capacities and resources to the continued promotion of
justice and dignity in health research in South Africa.

