



# Webinar on ICD-11 implementation strategy and country experiences

Classifications and Terminologies Unit  
WHO HQ, Geneva

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16 May 2022



World Health  
Organization

# ICD-11

## International Classification of Diseases

Eleventh Revision

ICD is a legally mandated global health data standard

ICD-11 is in effect since January 2022 (mortality and morbidity)

Independent of language and culture

Comparable statistics - semantic interoperability - for 150 years

ICD-11 is the most recent revision

- Full Integration of terminology and classification
- Fully digital, but paper use possible
- Scientifically updated
- All clinical detail codable, as much as desired

# Interoperability

ICD and WHO-FIC

Exchange of health record information across settings and environments

Better health and use of resources by better data

Health  
Record

## Direct health impact

- Patient documentation
- Disease surveillance
- Disease registries
- Surveys
- Causes of death
- Demographics Registries
- Civil registration
- Drug interactions
- Patient safety
- Device safety
- Medicament safety
- Guidelines
- Protocols
- Telemedicine
- Certificates (e.g. vaccines)
- Interventions
- Prevention
- Social medicine
- Functioning assessment

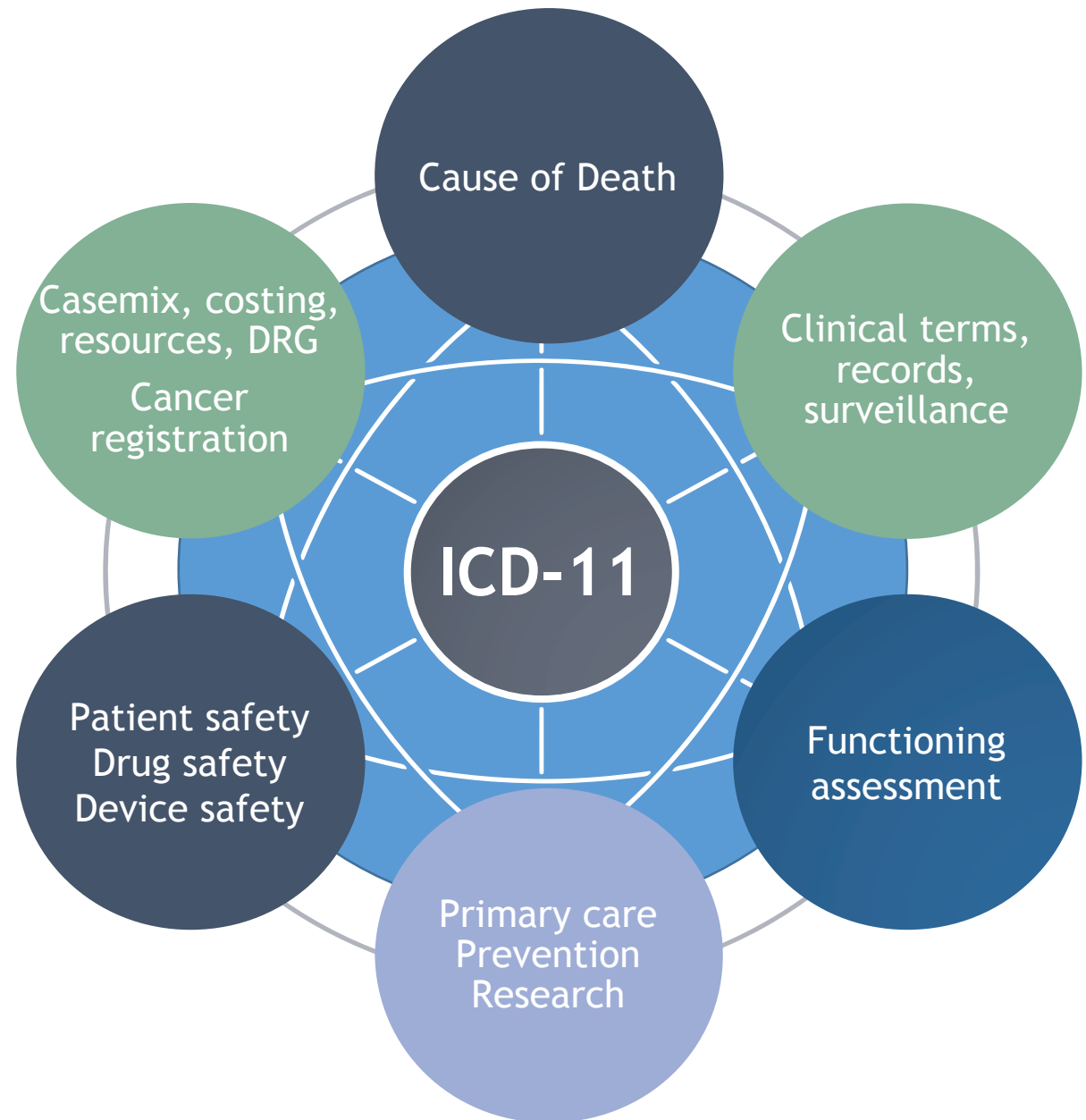
## Indirect health impact

- Payer
- Allied Health
- Other Providers
- Material Consumption
- Human Resources
- Financing
- Lab

## Future impact

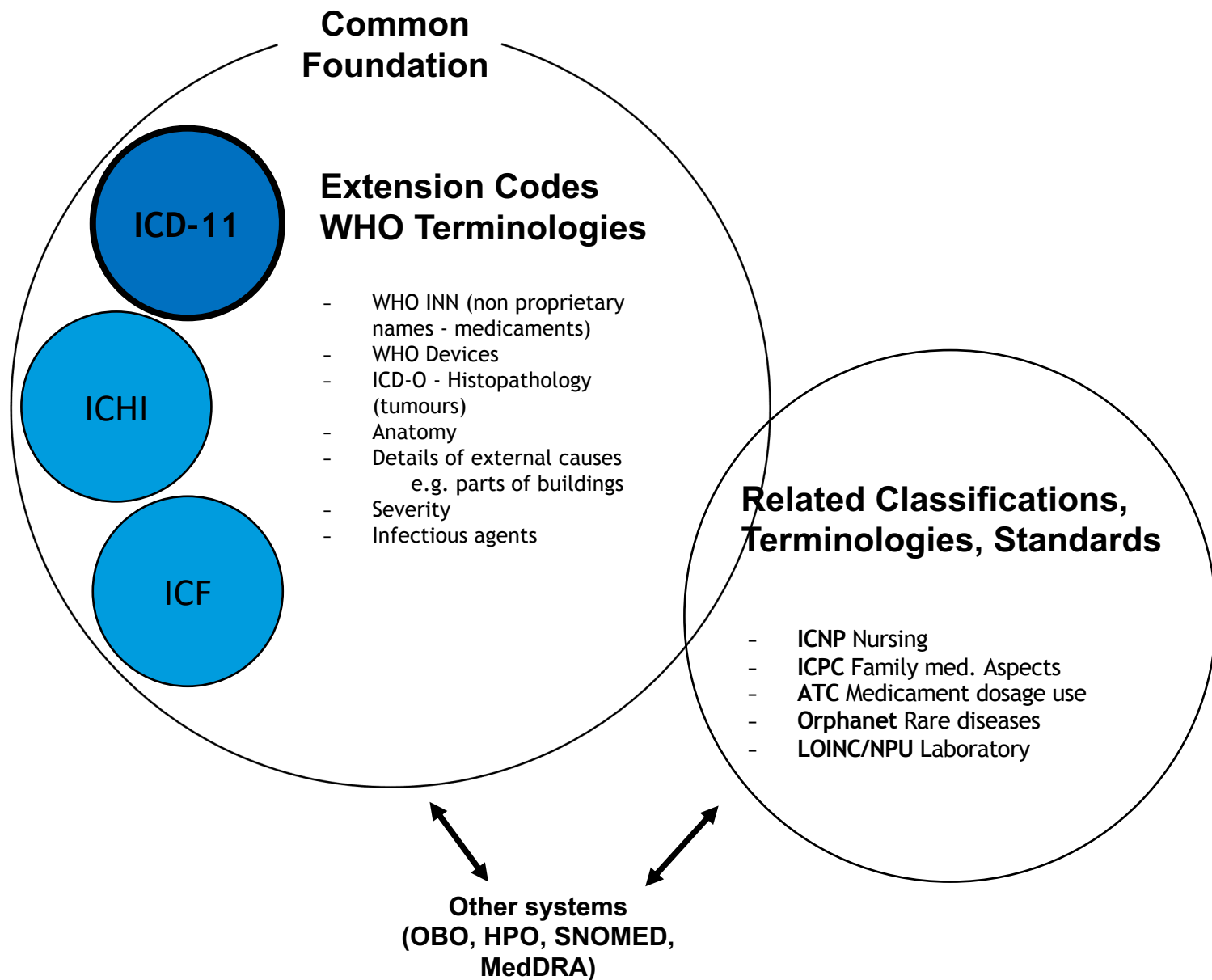
- Big Data
- Machine learning
- Artificial intelligence
- Reasoning or decision support

# ICD-11 Designed for Multiple Uses

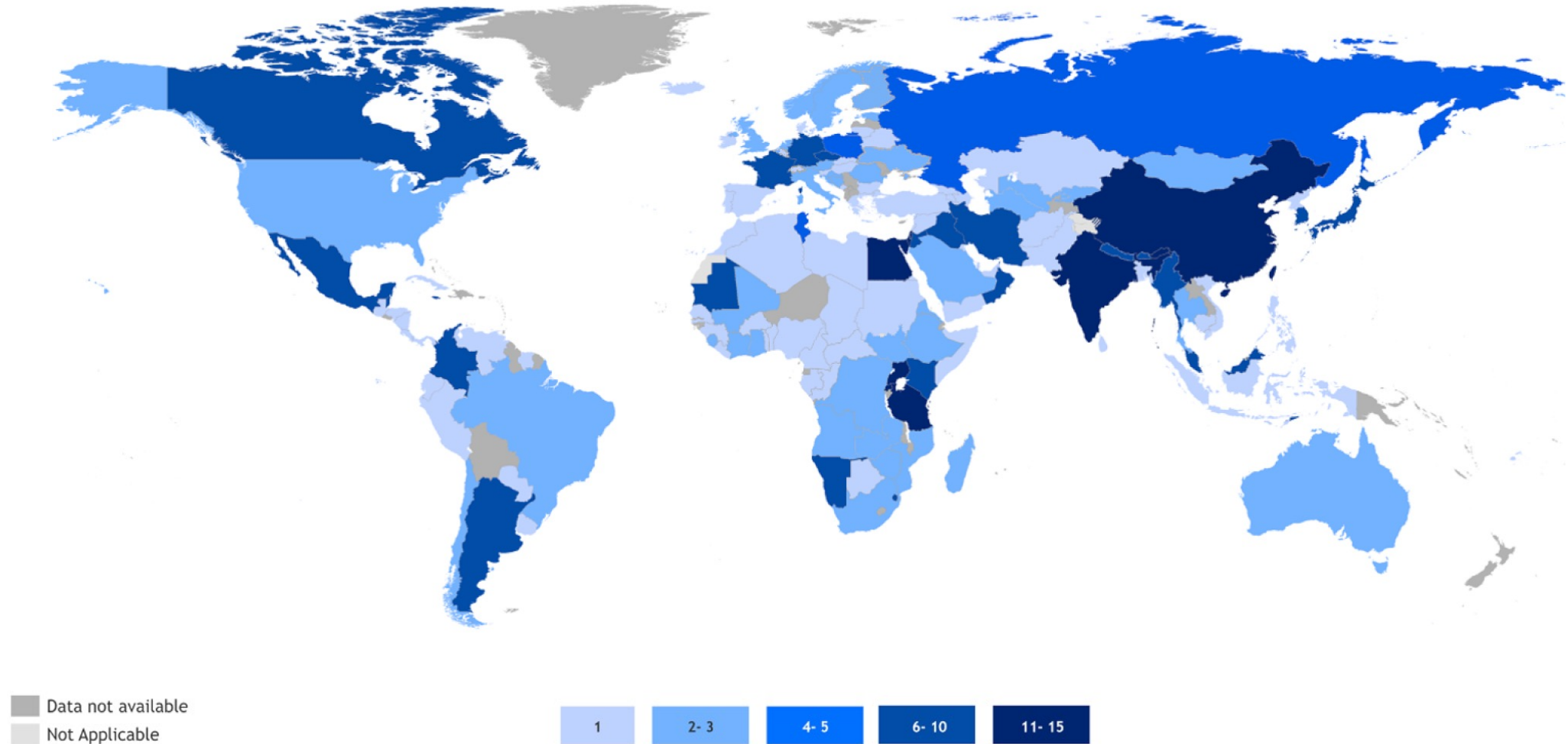


# The WHO Family of International Classifications

(WHO-FIC)



# ICD-11 implementation is progressing



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

# ICD-11 in numbers

## Maintenance platform

- 17.000 Proposals
- 20.000 Users
- 18.000 Monthly sessions on platform
- 350 Experts globally involved directly in maintenance
- 99 Countries input, so far

## Use

- 10.000.000 Application Programming Interface (API) hits per month
- 100.000 Docker Hub API image pulls (offline use)
- 33.000 Monthly sessions ICD-11 browser (ICD-10: 21.000)
- 6.300 Cloud hosted API registered accounts

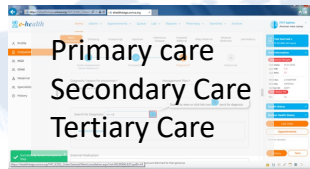
## Content

- 17.000 Categories
- 85.000 Entities
- 130.000 Terms
- >1.600.000 Expressions directly supported based on ontological structure
- Endless detail with manual code combinations

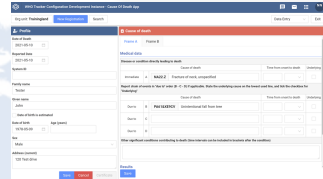


# ICD-11 uses in 2022

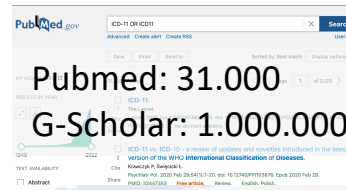
## Health record



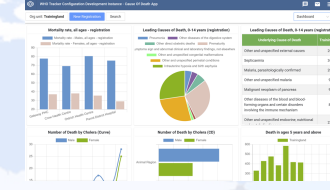
## Death Certificate



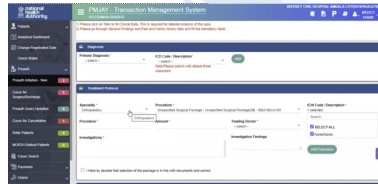
## Publications



## DHIS 2\*



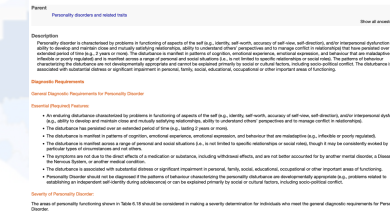
## Reimbursement



## Vaccination certificate



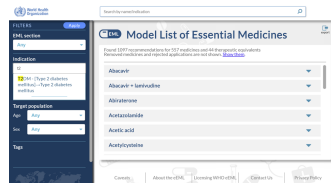
## Diagnostic guidelines



## Traditional Medicine

Entity title	National code & level	Frequency (Approved cases by year)	Description	Original language	Translation (Theoretical)
Worm infestation (Ayurveda)	N	109.016	A 10th disorder characterized by stomach (Dhatu) worms, causing abdominal pain, bloating, and loss of appetite. It is explained by increased Agni. Among the seven other traditional health systems, only Ayurveda has this entity.	शुद्धि	Shuddhi
Worm infestation (Siddha)	TK	2.901	A 10th disorder characterized by stomach (Dhatu) worms, causing abdominal pain, bloating, and loss of appetite. It is explained by increased Agni. Among the seven other traditional health systems, only Siddha has this entity.	சுத்தி	Shuddhi
Worm infestation (Unani)	F-95	90.602	A 10th disorder characterized by stomach (Dhatu) worms, causing abdominal pain, bloating, and loss of appetite. It is explained by increased Agni. Among the seven other traditional health systems, only Unani has this entity.	شود	Shuddhi

## Essential medicines



## Universal Health Coverage Menu



\* District health information system



# ICD-11 Implementation Package



**ICD-11 Browser (multilingual)**



**Coding tool (multilingual)**



**Reference Guide & Transition Guide**



**API , URI, Code combinations**



**Proposal & Translation platforms**



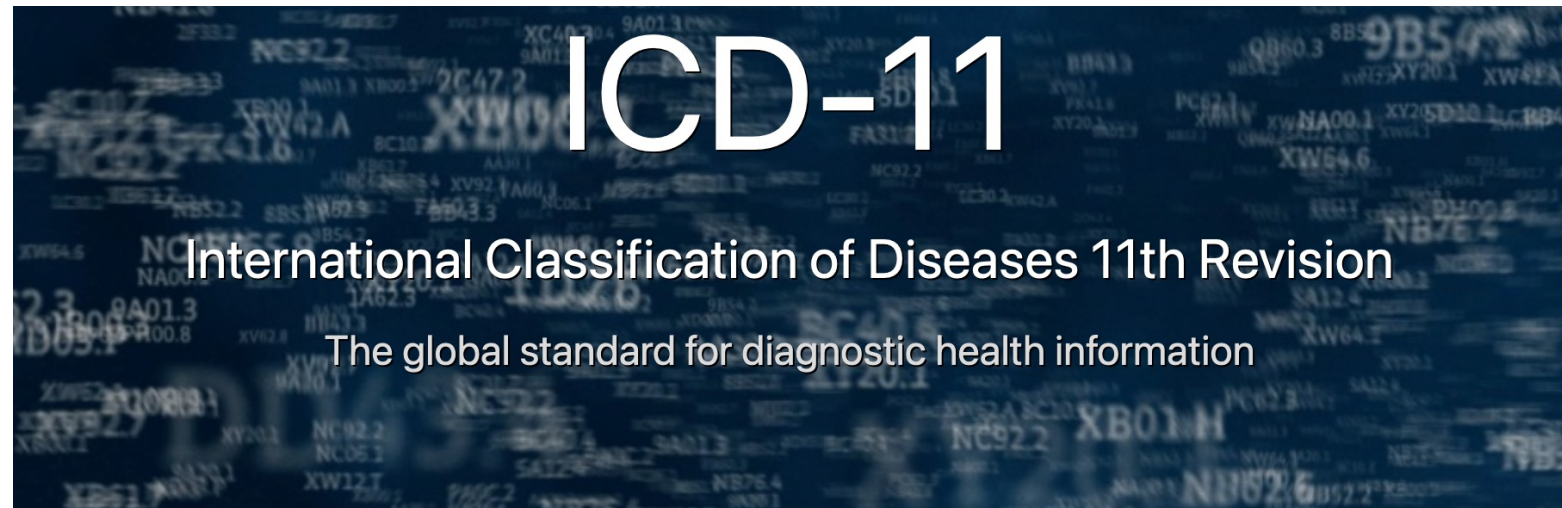
**Mapping tables from and to ICD10**



**Field implementation test platform  
(ICD-FIT)**

<http://icd.who.int>

Access all ICD-11  
tools



## 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

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[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](#)

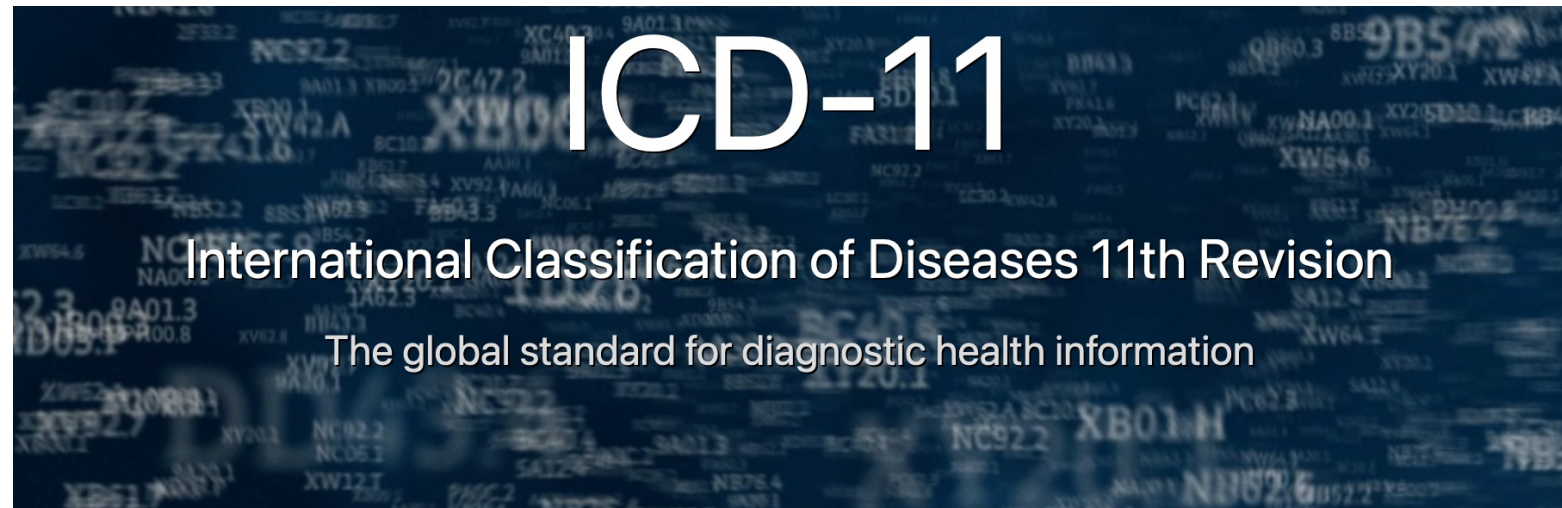
[Proposals](#)

[Translations](#)

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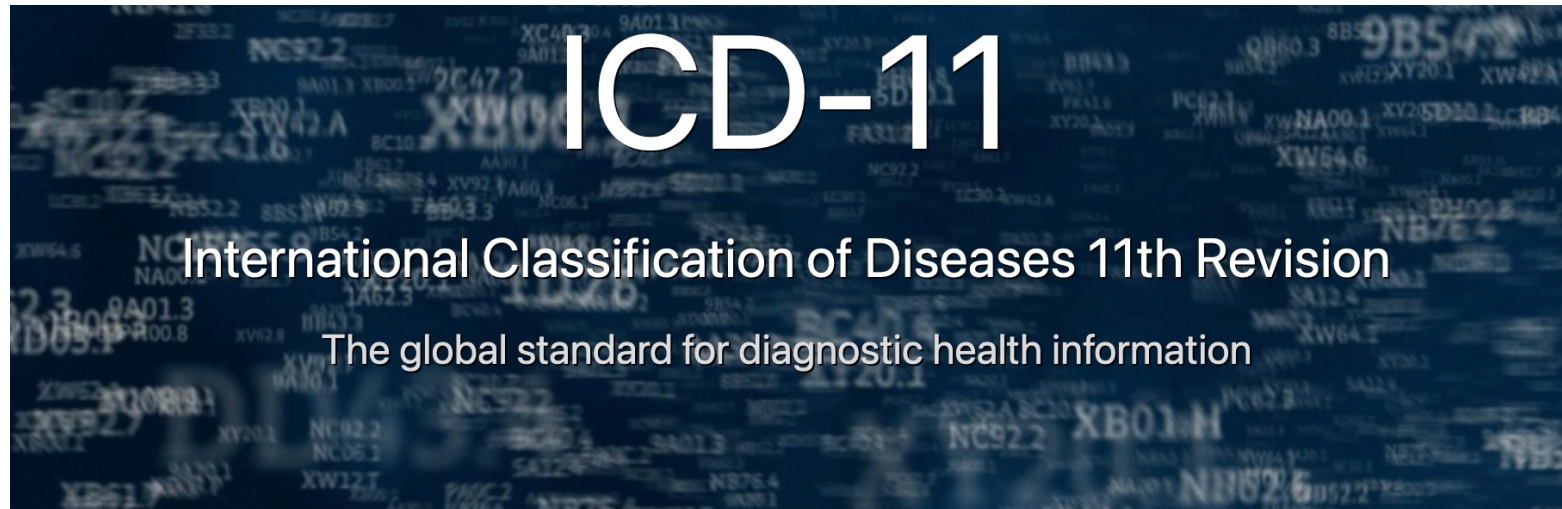
[Comments](#)  
[Proposals](#)  
[Translations](#)

<http://icd.who.int>

Access to all  
support tools

Self learning  
training traditional  
style

Modern course with  
WHO academy  
under development



## Use ICD-11

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ICD-API

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ICD-11 Implementation or  
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ICD-10 Browser

Self learning

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Comments

Proposals

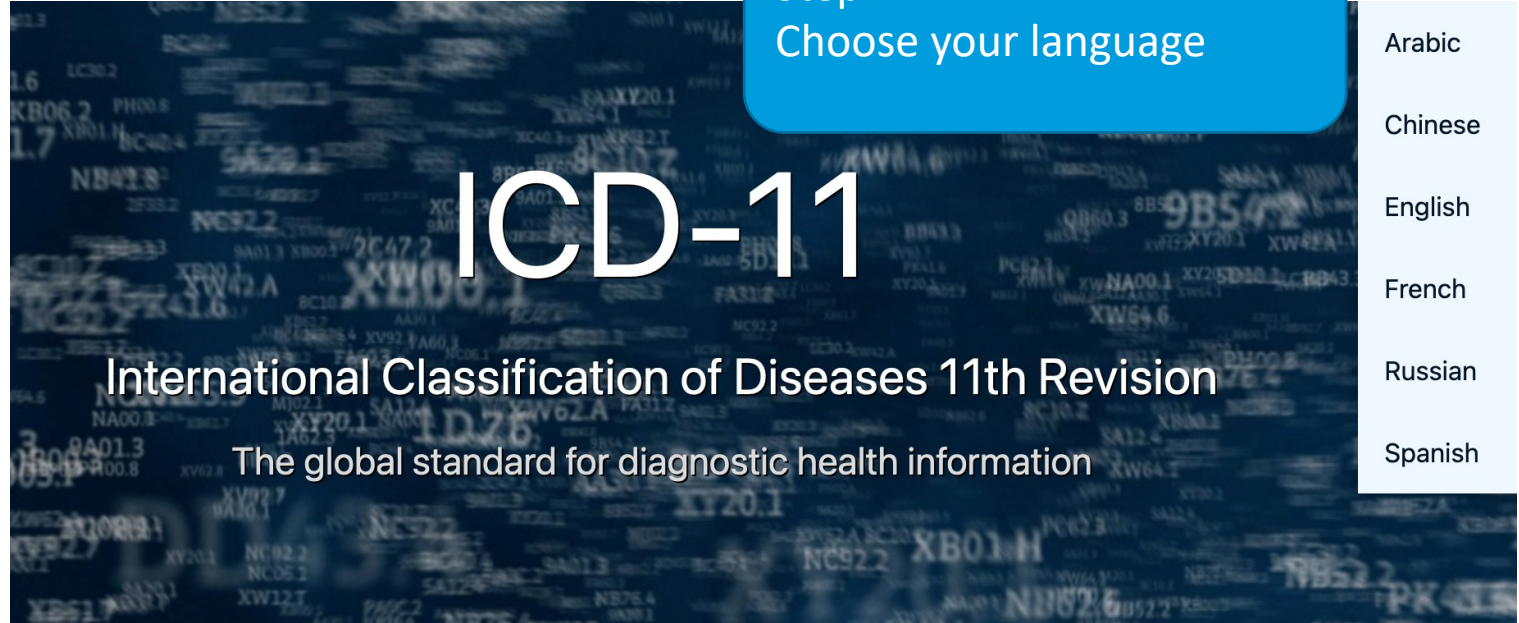
Translations



<http://icd.who.int>

## Transition or implementation guide

available in multiple  
languages



Step 1  
Choose your language

- Arabic
- Chinese
- English
- French
- Russian
- Spanish

### Use ICD-11

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*for seeing the content*

[ICD-11 Coding Tool](#)

*for coding with ICD-11*

[ICD-API](#)

*web services to get  
programmatic access to  
ICD-11*

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contribute

Step 2  
Download the ICD-11  
Implementation or  
Transition Guide




# 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
- ▶ 02 Neoplasms
- ▶ 03 Diseases of the blood or blood-forming organs
- ▶ 04 Diseases of the immune system
- ▶ 05 Endocrine, nutritional or metabolic diseases
- ▶ 06 Mental, behavioural or neurodevelopmental disorders
  
- ▶ 07 Sleep-wake disorders
- ▶ 08 Diseases of the nervous system
- ▶ 09 Diseases of the visual system
- ▶ 10 Diseases of the ear or mastoid process
- ▶ 11 Diseases of the circulatory system
- ▶ 12 Diseases of the respiratory system
- ▶ 13 Diseases of the digestive system
- ▶ 14 Diseases of the skin
- ▶ 15 Diseases of the musculoskeletal system or connective tissue
- ▶ 16 Diseases of the genitourinary system
- ▶ 17 Conditions related to sexual health
- ▶ 18 Pregnancy, childbirth or the puerperium
- ▶ 19 Certain conditions originating in the perinatal period
- ▶ 20 Developmental anomalies
- ▶ 21 Symptoms, signs or clinical findings, not elsewhere classified
- ▶ 22 Injury, poisoning or certain other consequences of

## ICD-11 for Mortality and Morbidity Statistics


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



# Multilingual Browser – access all detailed content manually

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

Search pneumonia [Advanced Search]

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

English

Arabic

Spanish

French

Chinese

> Arabic

> Spanish

> French

> Chinese

CA40.02 Pneumonia due to Haemophilus influenzae

CA40.03 Pneumonia due to Klebsiella pneumoniae

CA40.04 Pneumonia due to Mycoplasma pneumoniae

CA40.05 Pneumonia due to Pseudomonas aeruginosa

CA40.06 Pneumonia due to Staphylococcus

CA40.07 Pneumonia due to Streptococcus pneumoniae

CA40.08 Pneumonia due to Beta-haemolytic streptococcus

1C10.0 Pulmonary actinomycosis

1C1B.0 Pulmonary nocardiosis

CA40.0Y Pneumonia due to other specified bacteria

CA40.0Z Bacterial pneumonia, unspecified

CA40.1 Viral pneumonia

CA40.2 Fungal pneumonia

1F57.2 Pulmonary toxoplasmosis due to Toxoplasma gondii

1D65 Severe acute respiratory syndrome

KB24 Congenital pneumonia

CA43.1 Abscess of lung with pneumonia

CA40.Y Other specified pneumonia

CA40.Z Pneumonia, organism unspecified

CA41 Acute bronchiolitis

CA42 Acute bronchitis

CA43 Abscess of lung or mediastinum

CA44 Pyothorax

CA45 Respiratory infections, not elsewhere classified

CA40.Z Pneumonia, organism unspecified

Parent

CA40 Pneumonia

Show all ancestors

This category is an 'unspecified' residual category

Postcoordination

Add detail to Pneumonia, organism unspecified

Causality (use additional code, if desired)

XB5F

XB25

XB4Q

XB17

XB5G

XB80

XB22

Idiopathic

Nosocomial

Environmental

Occupational relevance

Occupation as primary factor

Occupation as cofactor

Not occupation-related

Community acquired

Laterality (use additional code, if desired)

XK9J

XK8G

XK9K

XK70

Bilateral

Left

Right

Unilateral, unspecified

Time in life (use additional code, if desired)

XT2C

XT4X

XT50

Infancy

Child under 5

Child over 5

CA40.Z Neumonía, sin especificación

Entidad padre

CA40 Neumonía

Mostrar todos los ancestros

Esta es una categoría residual del tipo "sin especificación"

Poscoordinación

Agregar detalles a Neumonía, sin especificación

Causalidad (use additional code, if desired)

XB5F

XB25

XB4Q

XB17

XB5G

XB80

XB22

Idiopática

Nosocomial

Ambiental

Pertinencia ocupacional

Ocupación como factor primario

Ocupación como cofactor

No relacionado con la ocupación

Adquirida en la comunidad

Lateralidad (use additional code, if desired)

XK9J

XK8G

XK9K

XK70

Bilateral

Izquierdo

Derecho

Unilateral, no especificado

Período de la vida (use additional code, if desired)

XT2C

XT4X

XT50

Infancia

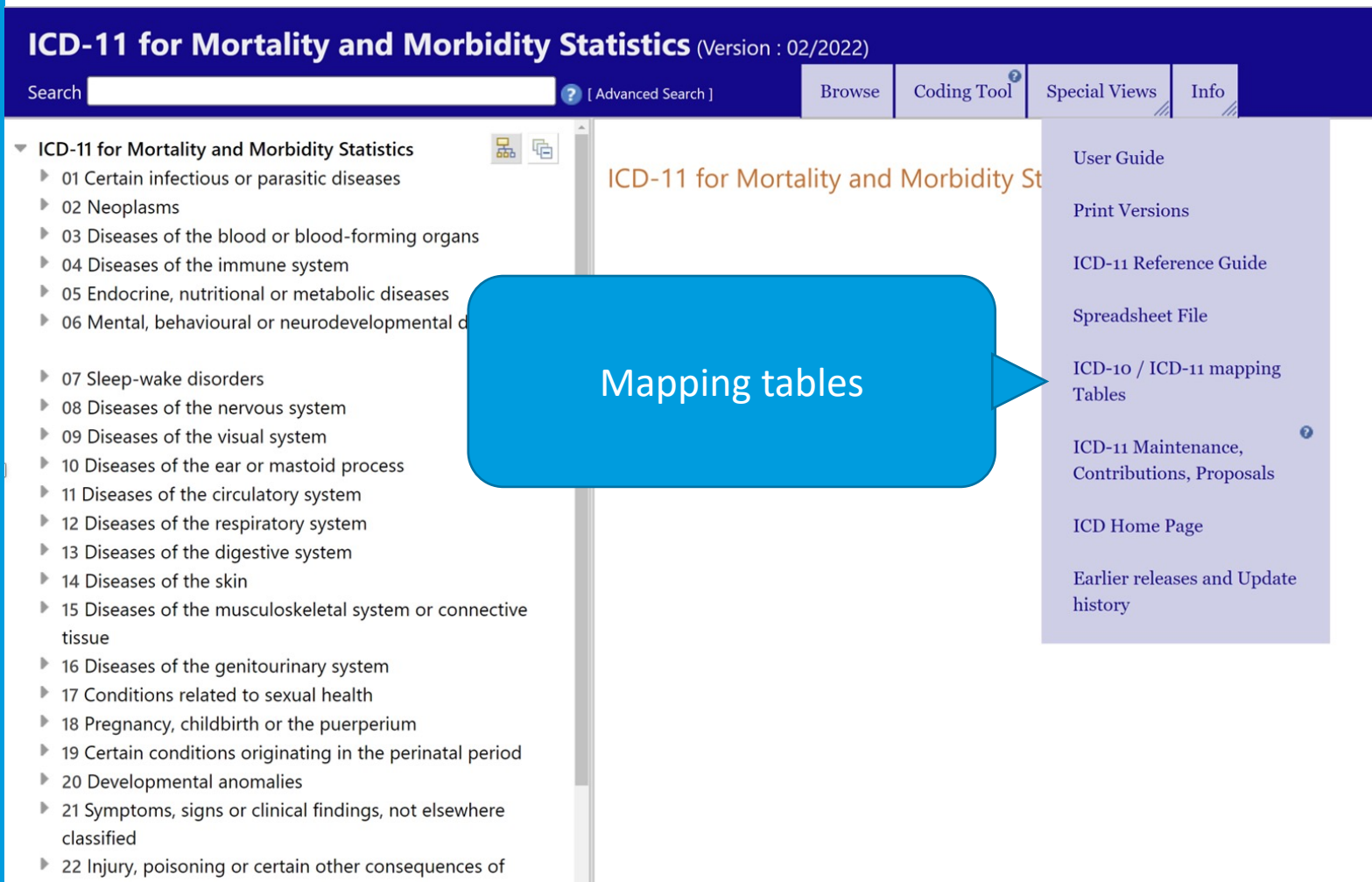
Niño menor de 5 años

Niño mayor de 5 años

# Mappings

Between ICD-10 and ICD-11

Access from the browser



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

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ICD-11 for Mortality and Morbidity Statistics

Mapping tables

User Guide

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ICD-10 / ICD-11 mapping Tables

ICD-11 Maintenance, Contributions, Proposals

ICD Home Page

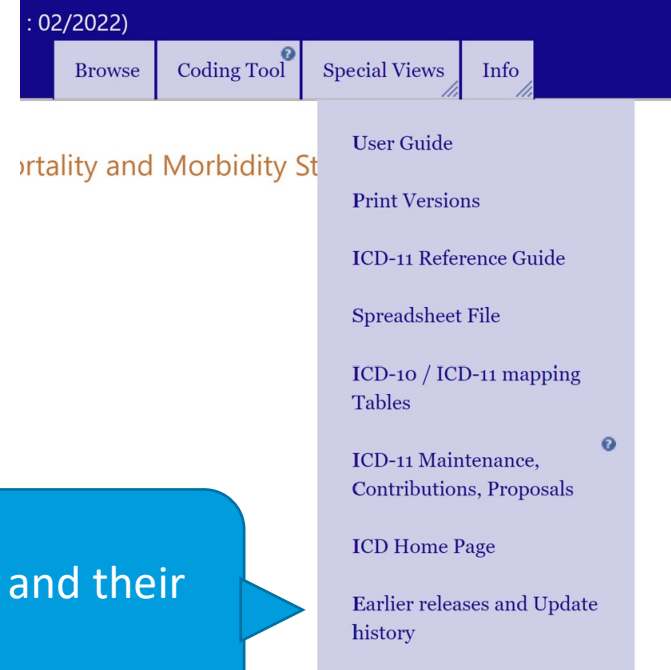
Earlier releases and Update history

Special rules for mapping from or to ICD

<https://www.who.int/publications/m/item/who-fic-classifications-andterminology-mapping>

Track and map to  
any stable release  
of ICD-11

Access from browser



Earlier releases and their  
maps

## ICD-11 for Mortality and Morbidity Statistics

### Releases

### Available languages

### Changes made

**2022-02** (latest release)

**ar** **en** **es** **fr** **zh**

Changes made in this release

**2021-05**

**ar** **en** **es** **zh**

Changes made in this release

**2020-09**

**ar** **en** **es**

Changes made in this release

**2019-04**

**en**

Changes made in this release

**2018** (initial release)

**en**

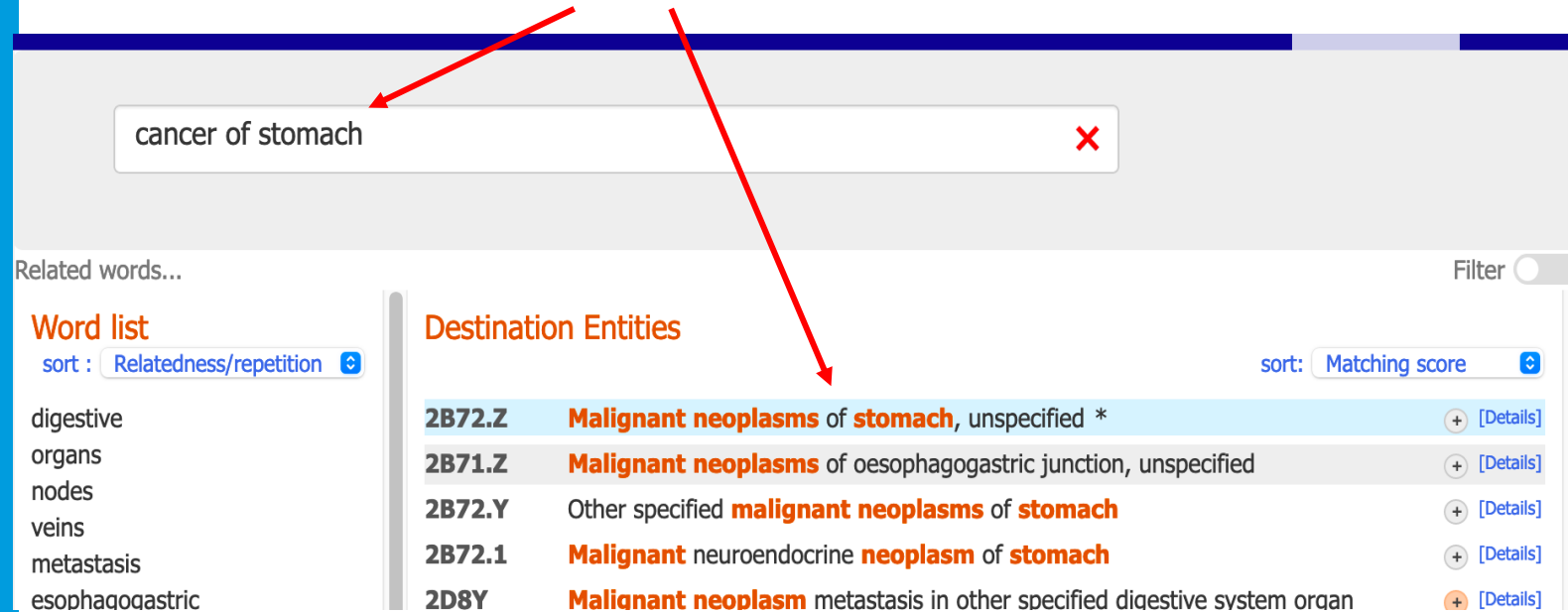
# Coding Tool

Always use coding tool

Software support for  
frequent code  
combinations

Type a diagnostic statement into the Coding Tool

e.g. *cancer of stomach*



The screenshot shows the WHO Coding Tool interface. At the top, a search bar contains the text "cancer of stomach" with a red 'X' icon to its right. Below the search bar, there are two main sections: "Word list" and "Destination Entities".

**Word list**  
sort : Relatedness/repetition

- digestive
- organs
- nodes
- veins
- metastasis
- esophagogastric

**Destination Entities**  
sort: Matching score

2B72.Z	Malignant neoplasms of stomach, unspecified *	[Details]
2B71.Z	Malignant neoplasms of oesophagogastric junction, unspecified	[Details]
2B72.Y	Other specified malignant neoplasms of stomach	[Details]
2B72.1	Malignant neuroendocrine neoplasm of stomach	[Details]
2D8Y	Malignant neoplasm metastasis in other specified digestive system organ	[Details]

The Coding Tool will find the best match

# ICD-11

## Reference Guide

Uses of ICD-11

Structure of ICD-11

Rules for recording and coding

Mortality

Clinical

Traditional medicine diagnoses

Patient safety

Rules for Tabulation

Maintenance process and rules

Differences to ICD-10

Flyer on how to fill in medical certificate of cause of death

Use ICD-11 on

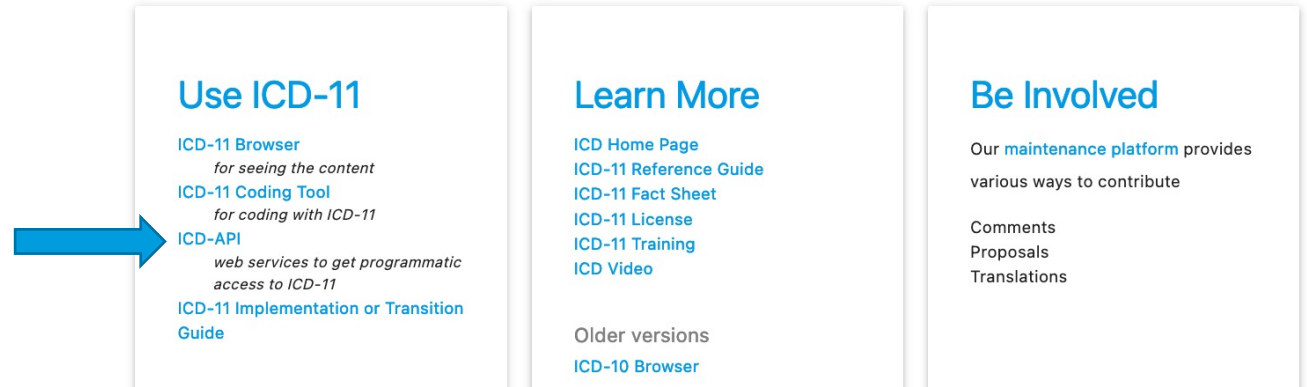
the web

local computers

local networks

in release version and  
desired language(s)

Update local deployment at any time



Software access to ICD-11 Application Programming Interface (API) explained

Embedding of coding tool in local software explained

Deploying API Locally explained

...and more

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

## More tools

WHO-FIT Field implementation and testing platform  
online coding and coding assessment - access on request

DORIS - Software support for selection of cause of death on  
death certificate

ANACOD 3 - Analysing population cause of death level data

CodEDIT - coding plausibility check



Like to change  
something in ICD-11?

Suggestions for changes to  
ICD-11 can be initiated  
easily

Submit a proposal

Include robust evidence

<http://icd.who.int>

# ICD-11

International Classification of Diseases 11th Revision

The global standard for diagnostic health information

## 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  
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ICD-11 Implementation or  
Transition Guide

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ICD-11 Reference Guide

ICD-11 Fact Sheet

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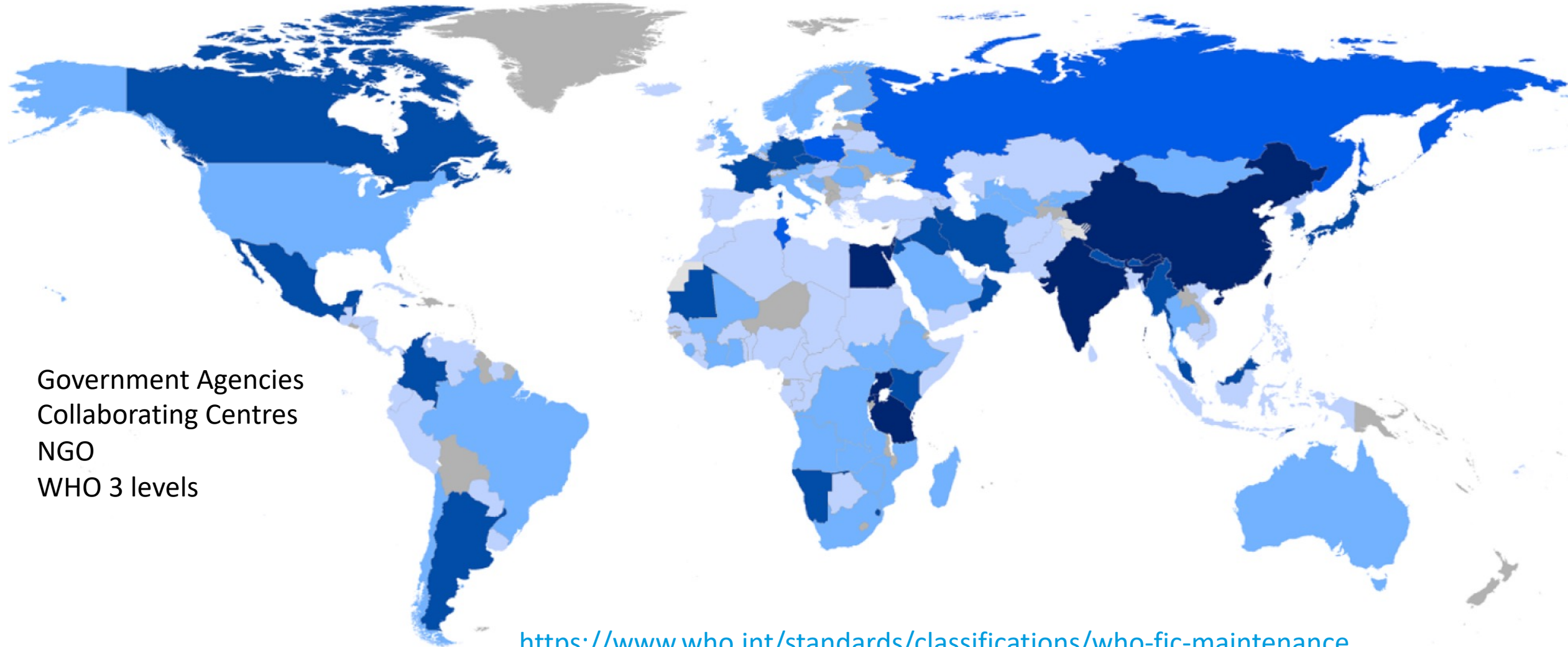
ICD-10 Browser

## Be Involved

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

Access daily version,  
Register yourself  
**Submit proposals**

# WHO Network for the Family of Classifications and Terminologies (WHO-FIC) – support maintenance and dissemination



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# Access to information

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Icd-11 Homepage: <https://icd.who.int>

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Available languages : Arabic, Chinese, English, French, Russian, and Spanish

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<https://www.who.int/standards/classifications>

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<https://twitter.com/WHOICD11>

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<https://www.facebook.com/ICD11>

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For questions related to ICD-11 contact:

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[icd@who.int](mailto:icd@who.int)

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