World Health Organization

International Classification of Diseases

11th Revision

ICD-11 in Dermatology

14:00-15:00 CET

World Health Organization

International Classification of Diseases 11th Revision

Dr Robert Jakob, WHO

Unit Lead

Classifications and Terminologies

jakobr@who.int

World Health Organization

ICD-11

International Classification of Diseases

ICD-11

Legally mandated WHO health data standard* – in effect from January 2022 (mortality and morbidity)

Up-to-date scientific knowledge

Integration of terminology and classification

End-to-end digital solution (API, tools, online and offline)

Conceptual framework independent of language and culture

Comparable statistics – semantic interoperability - for 150 years

Creative Commons Attribution-NoDerivs 3.0 IGO license
(CC BY-ND 3.0 IGO)

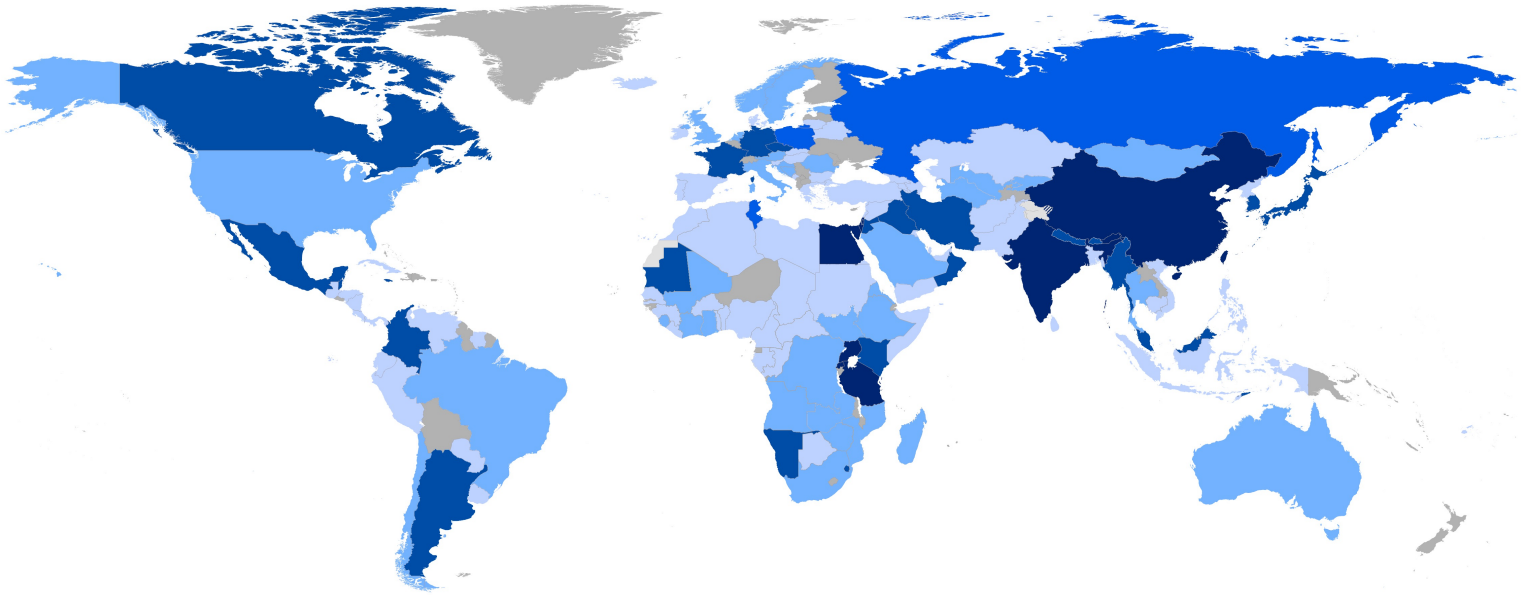
https://icd.who.int

World Health Organization

Implementation is progressing

ICD-11

ICD-11 Implementation Status



Data not available
Not Applicable

1 | 2- 3 | 4- 5 | 6- 10 | 11- 15

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.

World Health Organization

© WHO 2020. All rights reserved.

https://icd.who.int

World Health Organization

WHO core classifications

ICD-11

ICD

International Statistical Classification of Diseases and related health problems

ICHI

Interventions for treatment, prevention and diagnostics: medical, nursing, rehabilitation, laboratory, imaging, ultrasound, public health...

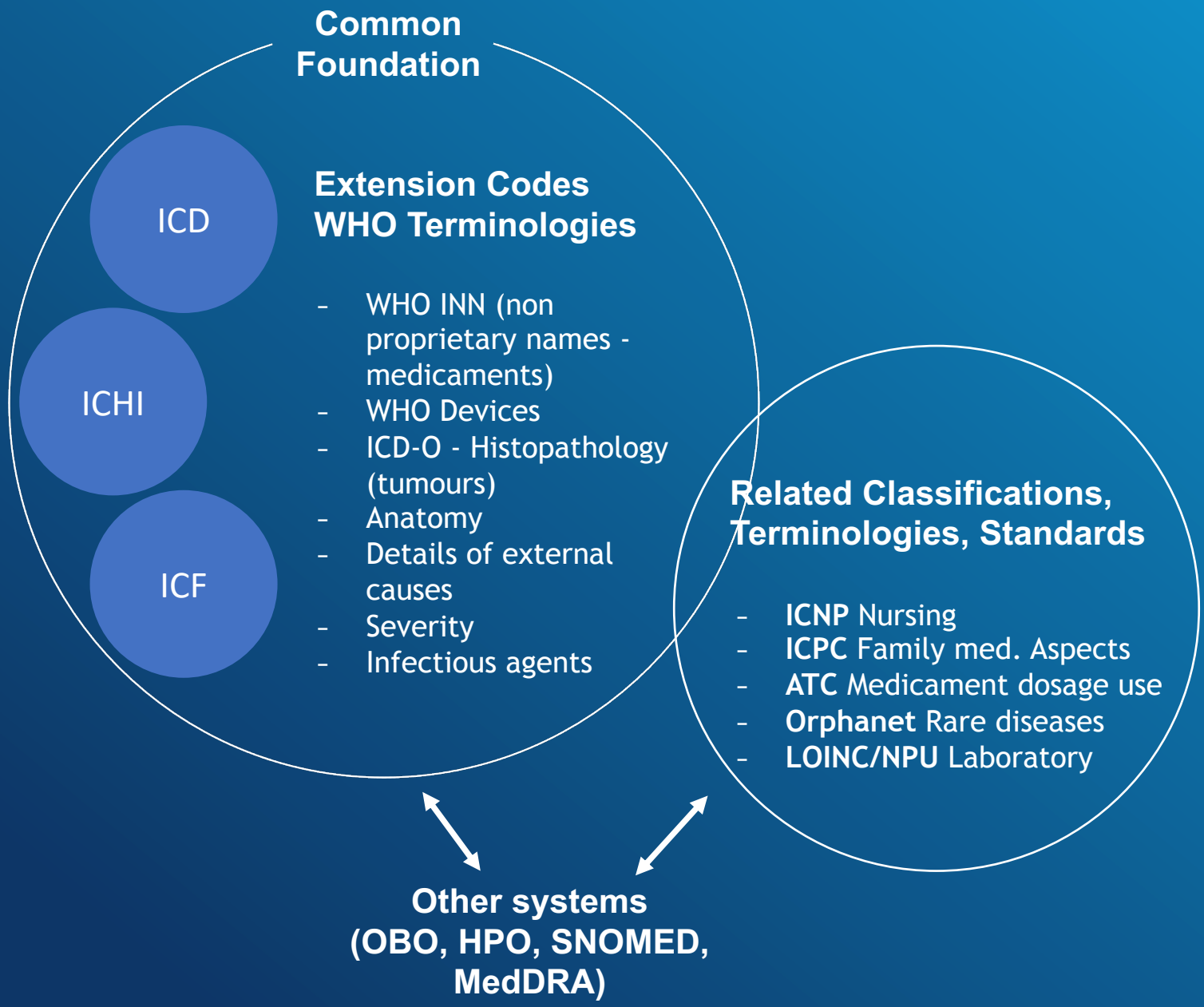
ICF

International Classification of Functioning, Disability and Health: Describes functional health status and social impact (bio-psycho-social model).

https://icd.who.int

The WHO Family of International Classifications

(WHO-FIC)

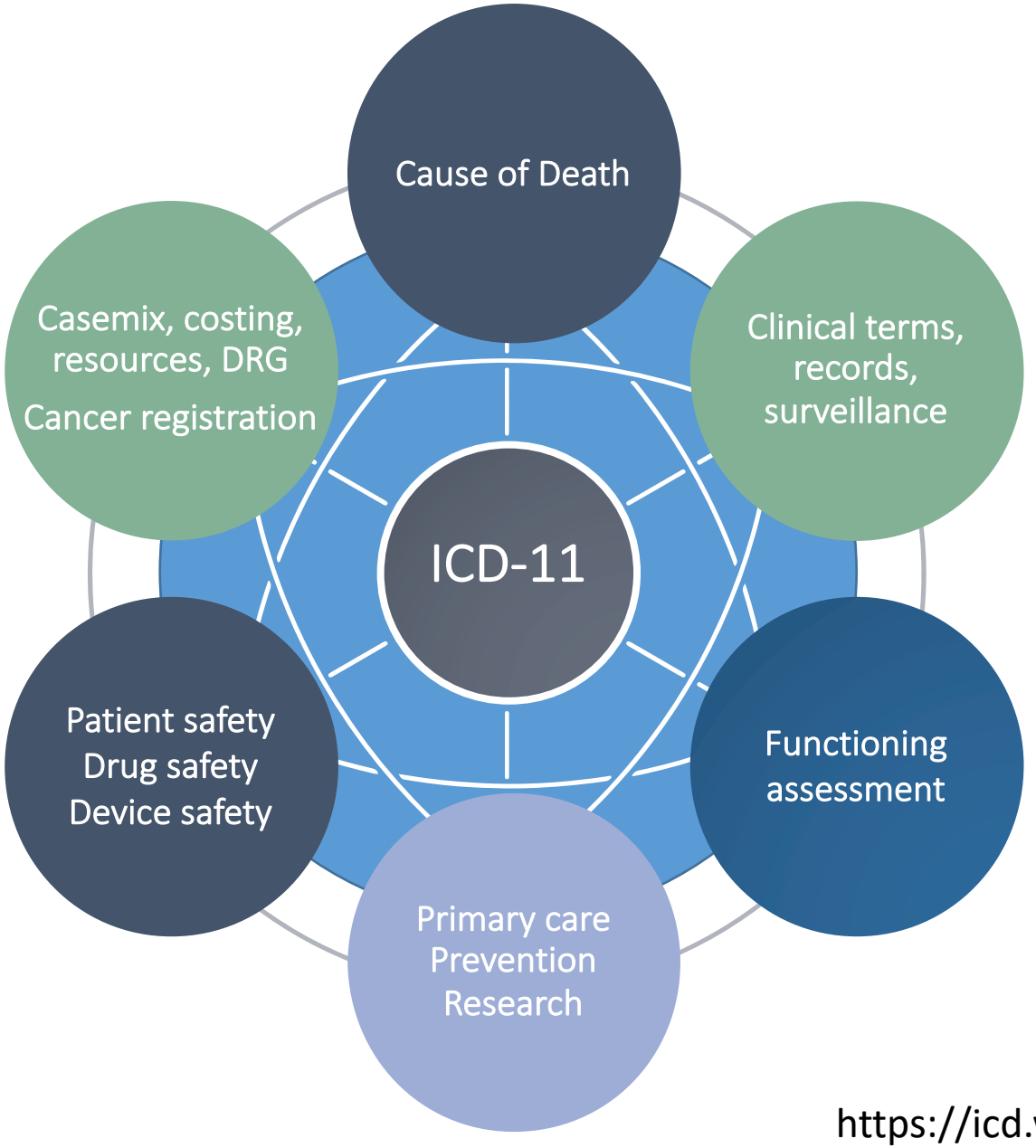


https://icd.who.int

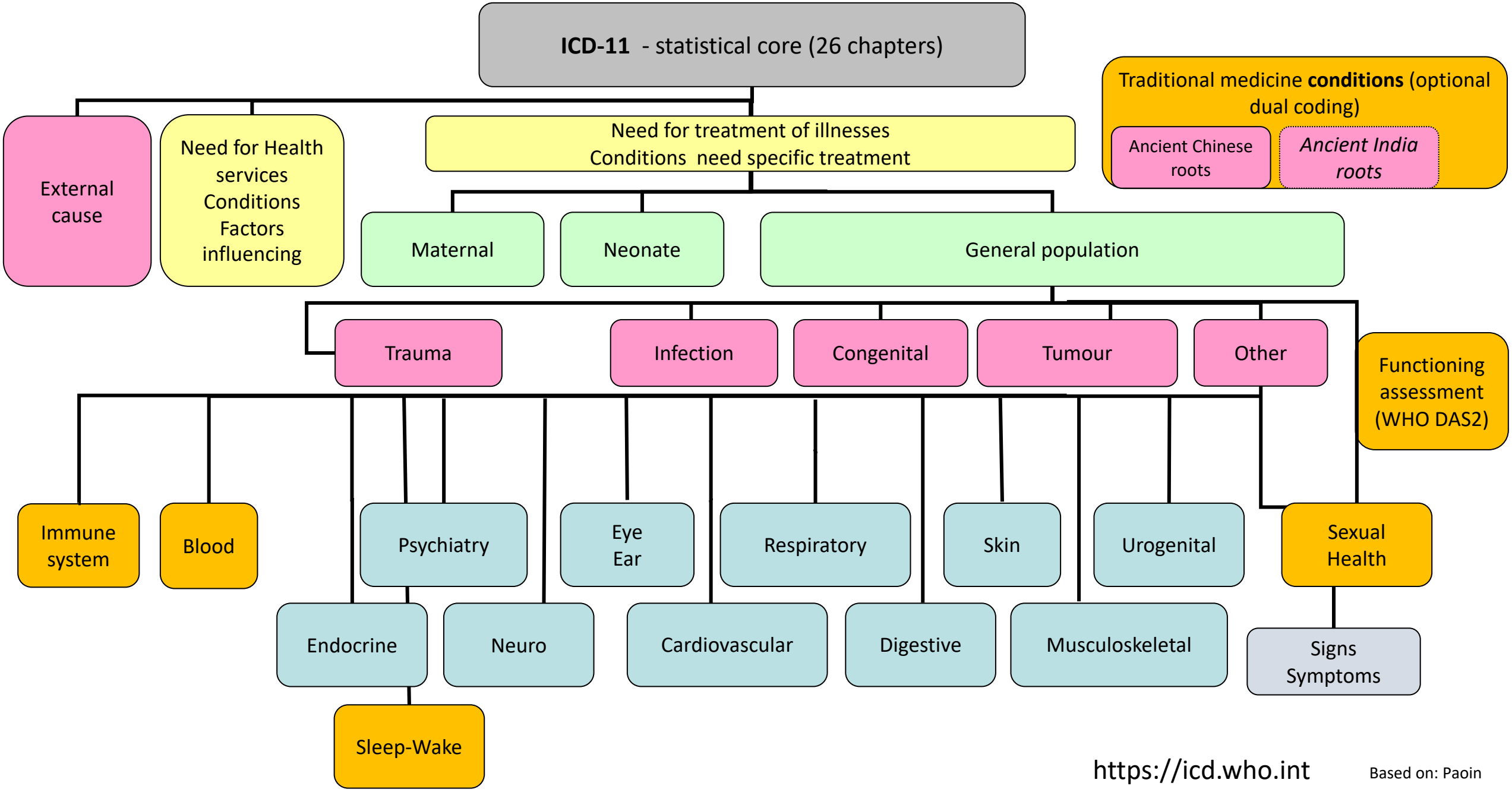
World Health Organization

Designed for Multiple Uses

ICD-11



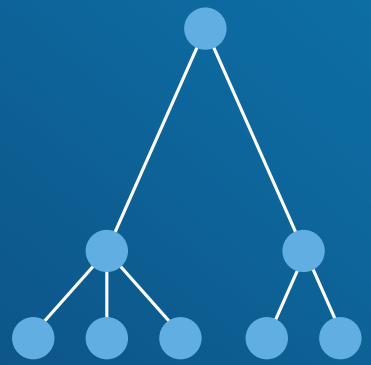
https://icd.who.int


ICD-11 - statistical core (26 chapters)
Traditional medicine conditions (optional dual coding)
Ancient Chinese roots
Ancient India roots
External cause
Need for Health services Conditions Factors influencing
Need for treatment of illnesses Conditions need specific treatment
Maternal
Neonate
General population
Trauma
Infection
Congenital
Tumour
Other
Functioning assessment (WHO DAS2)
Immune system
Blood
Psychiatry
Eye Ear
Respiratory
Skin
Urogenital
Sexual Health
Endocrine
Neuro
Cardiovascular
Digestive
Musculoskeletal
Signs Symptoms
Sleep-Wake
https://icd.who.int
Based on: Paoin

ICD-10

Statistical system imposed for clinical use

Primitive structure with focus on statistics.
Missing a lot of clinical detail
Print product



Codes and URI Combinations:

14 000

stat. categories (codes)

Separate text index

Separate rule base

Need terminology link

30 years outdated content

ICD-11

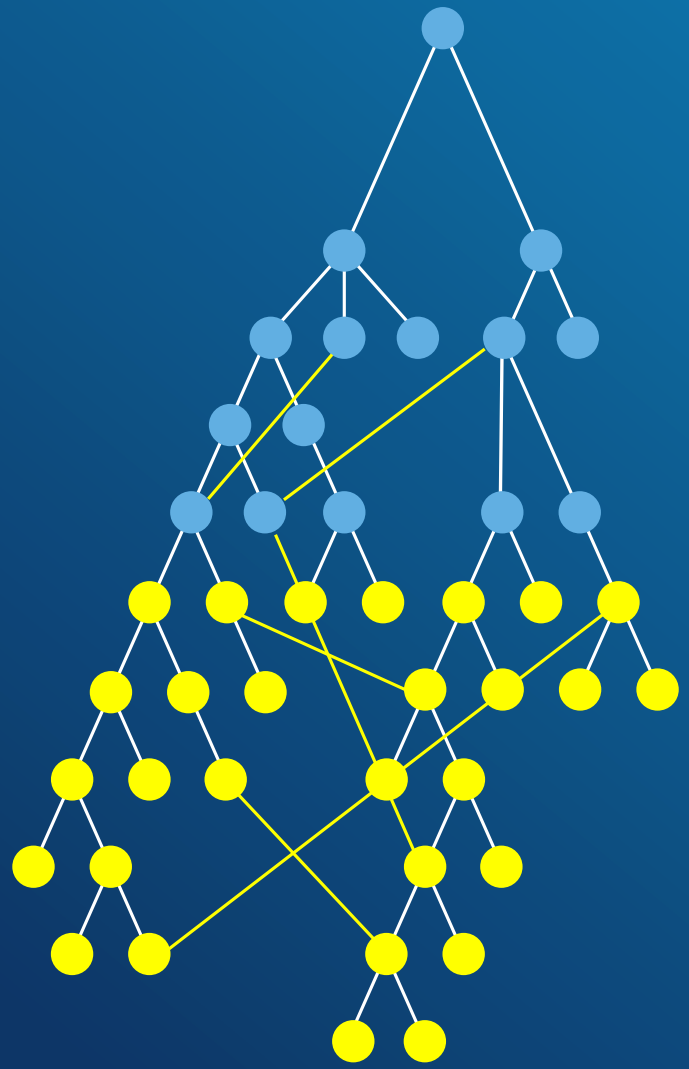
Clinical systems for statistical use

Ontology with multiple parenting

All desired clinical detail codable
Use code combinations

More detail beyond statistical categories (foundation in yellow)

Input from clinical modifications of ICD-10



Codes and URI Combinations:

17 000
stat. categories (codes)

80 000
entities

120 000
terms

>1 600 000
terms with formalized post-coordination

Searchable in “Google style” without training

https://icd.who.int

World Health Organization

New and updated content

ICD-11

New chapters and sections

- **Diseases of the immune system**
- **Sleep wake disorders**
- **Conditions related to sexual health**
- **Optional section Traditional Medicine Conditions**
- **Disability assessment Scheme (WHO-DAS)**

In line with major international initiatives, as

- **Patient safety reporting**
- **Antimicrobial resistance documentation**
- **Detail for DRG (integration of clinical modifications of ICD)**
- **Detail for primary care**

World Health Organization

Updates

Some highlights

ICD-11

Neoplasms

New hierarchy

Inclusion of histopathology, basalioma, melanoma types

Coding for Grade and Stage

Nervous system

More clinical detail

Moved cerebrovascular diseases here

Cardiovascular system

Myocardial infarction STEMI- non-STEMI

updated arrhythmias and pulmonary hypertension

Codes for COVID-19

https://icd.who.int

World Health Organization

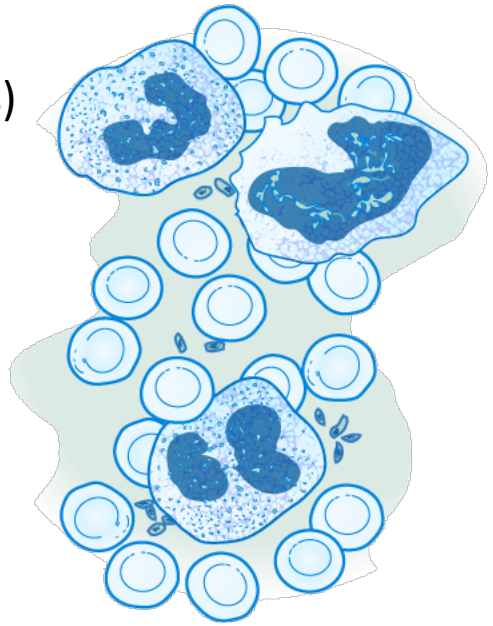
New Chapter 04

Diseases of the immune system

ICD-11

This new chapter (previously part of Chapter III in ICD-10) has the following sections:

- Immunodeficiencies
- Non-organ specific systemic disorders (NOSSAD)
- Autoinflammatory disorders
- Allergic or hypersensitivity conditions (+anaphylaxis)
- Certain diseases involving the immune system
- Diseases of thymus



https://icd.who.int

World Health Organization

Fully redesigned Chapter 14

Diseases of the skin

ICD-11

World Health Organization

External causes

Functioning

ICD-11

External Causes

More consistent detail

Better organization of traffic accidents

New section on causes of healthcare related harm or injury (patient safety)

Completely overhauled for modern reporting of harm or near failure

Other sections include Exposure to extreme forces, Maltreatment, Legal intervention, Armed conflict and

Functioning

WHO DAS 2 assessment of functioning and calculating a score

https://icd.who.int

World Health Organization

More than diagnoses

ICD-11

Conditions - Classification

- Diagnoses
- Injuries
- Signs
- Symptoms
- Findings

- Reasons for encounter or health status
- External causes of illness & death

- Traditional medicine conditions
- Functioning assessment – WHO-DAS2

Extension codes - Terminology

- Severity
- Temporality
- Anatomy
- Laterality
- Consciousness

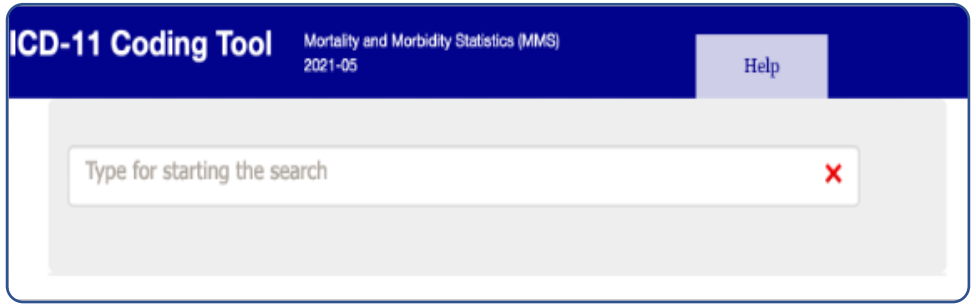
- Infectious agents and AMR
- Histopathology (ICD-O)
- Chemicals and Medicaments (INN)
- Devices
- Mechanisms of harm (Safety)
- Activities
- Places
- Objects

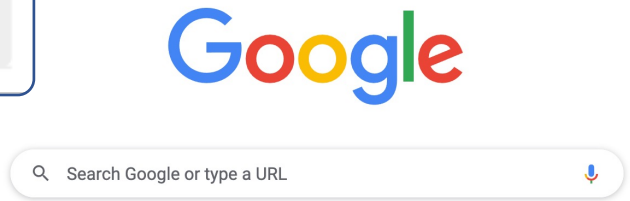
https://icd.who.int

World Health Organization

Easy to use Multiple tools

- ICD-11 self learning training online
- Guide for implementation of ICD-11* timelines – steps – questions
- Mappings
- Field implementation and testing platform
- Webinars and online class for coding
- DRG system (under development)
- API and coding tool that can be embedded LOCALLY or ONLINE





https://icd.who.int

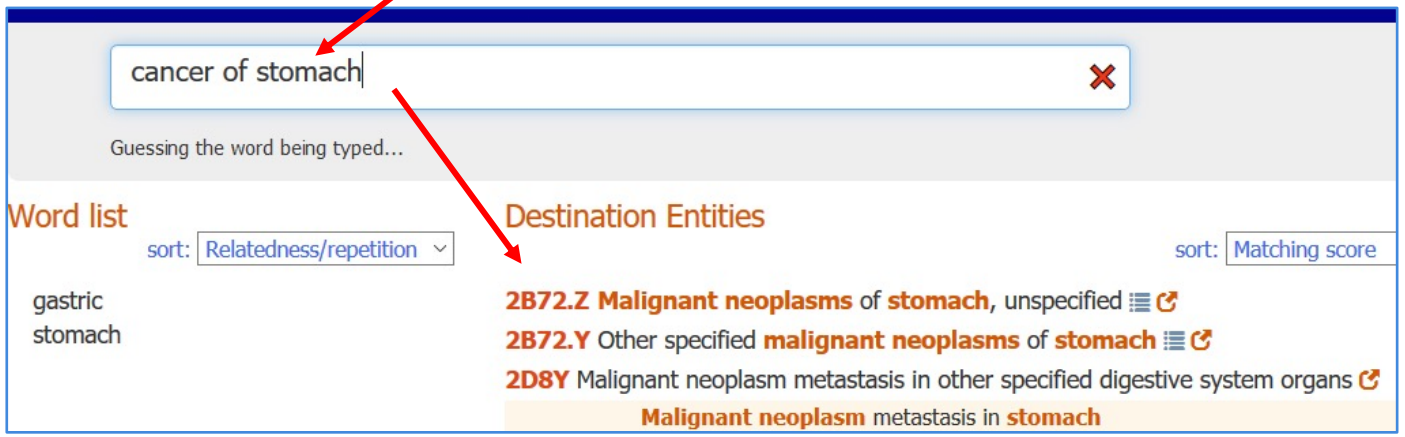
ICD-11

World Health Organization

Easy to use

Type a diagnostic statement into the Coding Tool

e.g. ***cancer of stomach***



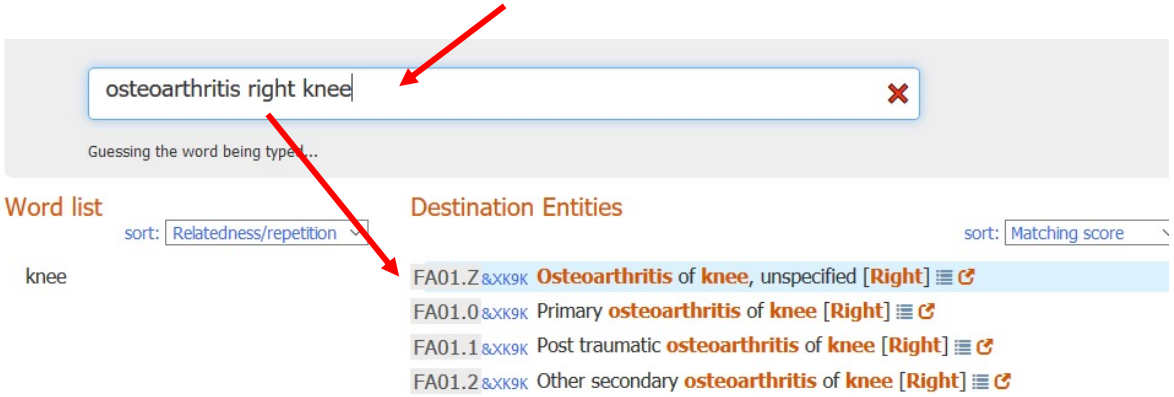
The Coding Tool will find the best match

World Health Organization

Easy to use

Type a diagnostic statement into the Coding Tool

e.g. ***Osteoarthritis of right knee***



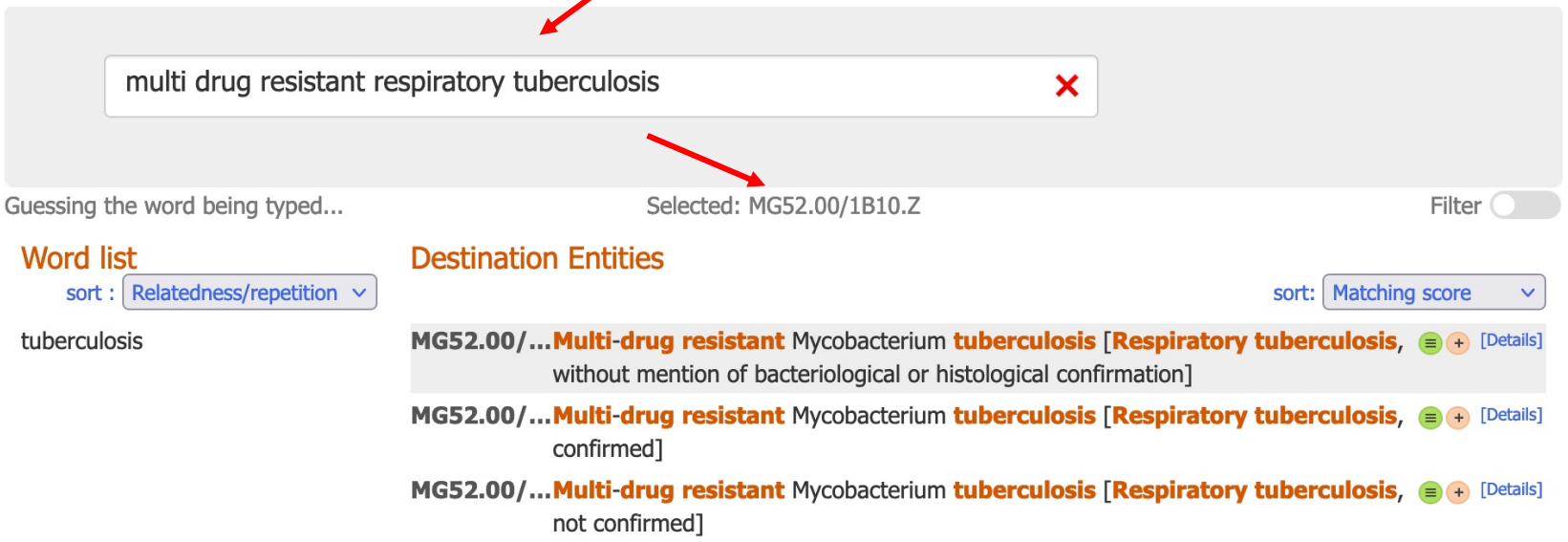
The Coding Tool will find the best match including the code combination (postcoordination) information for left or right (laterality)

World Health Organization

Coding Tuberculosis

Type a diagnostic statement into the Coding Tool

e.g. ***multi-drug resistant tuberculosis***



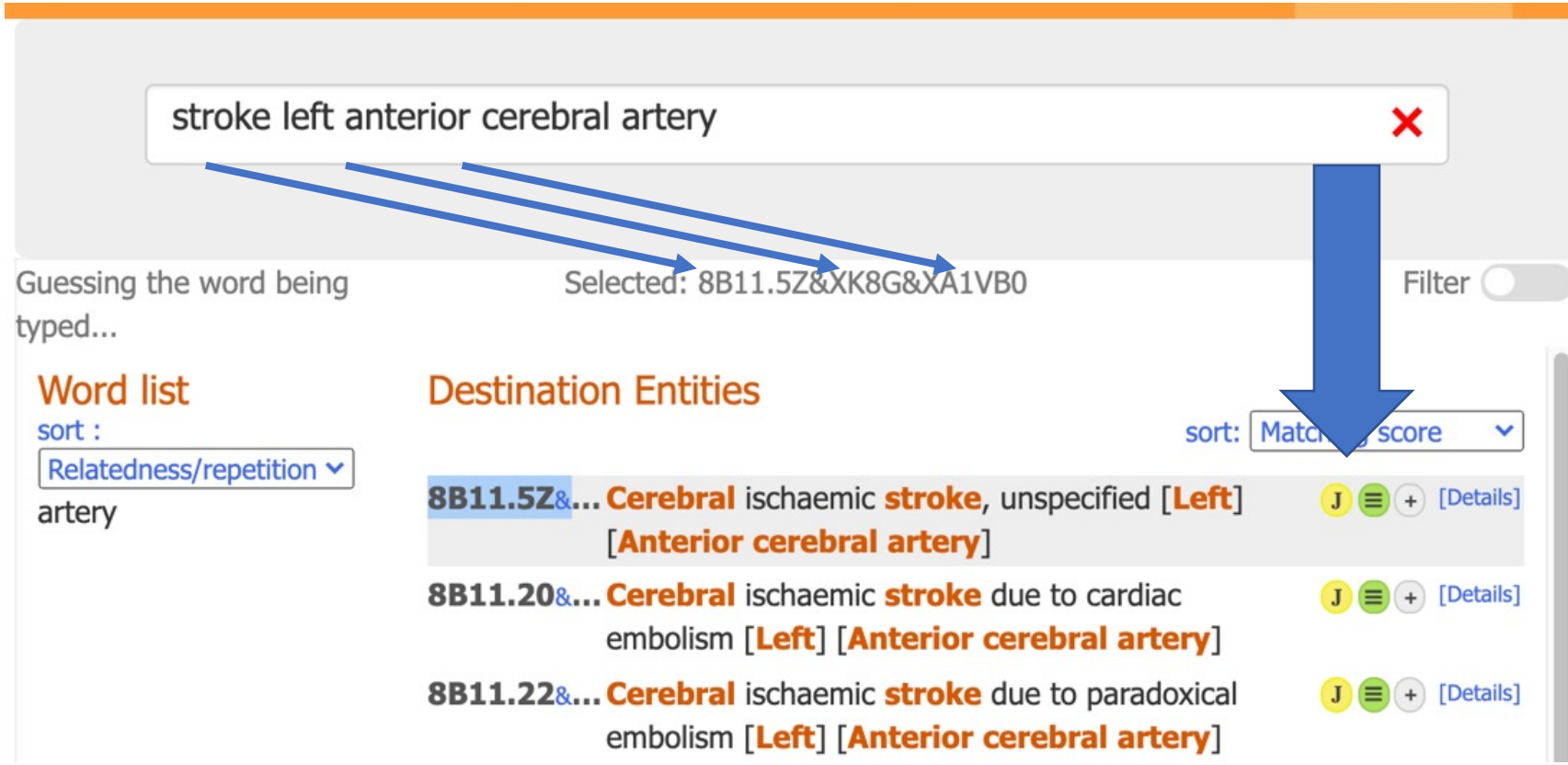
The Coding Tool will find the best match including the code combination

ICD-11

https://icd.who.int

World Health Organization

Coding Stroke



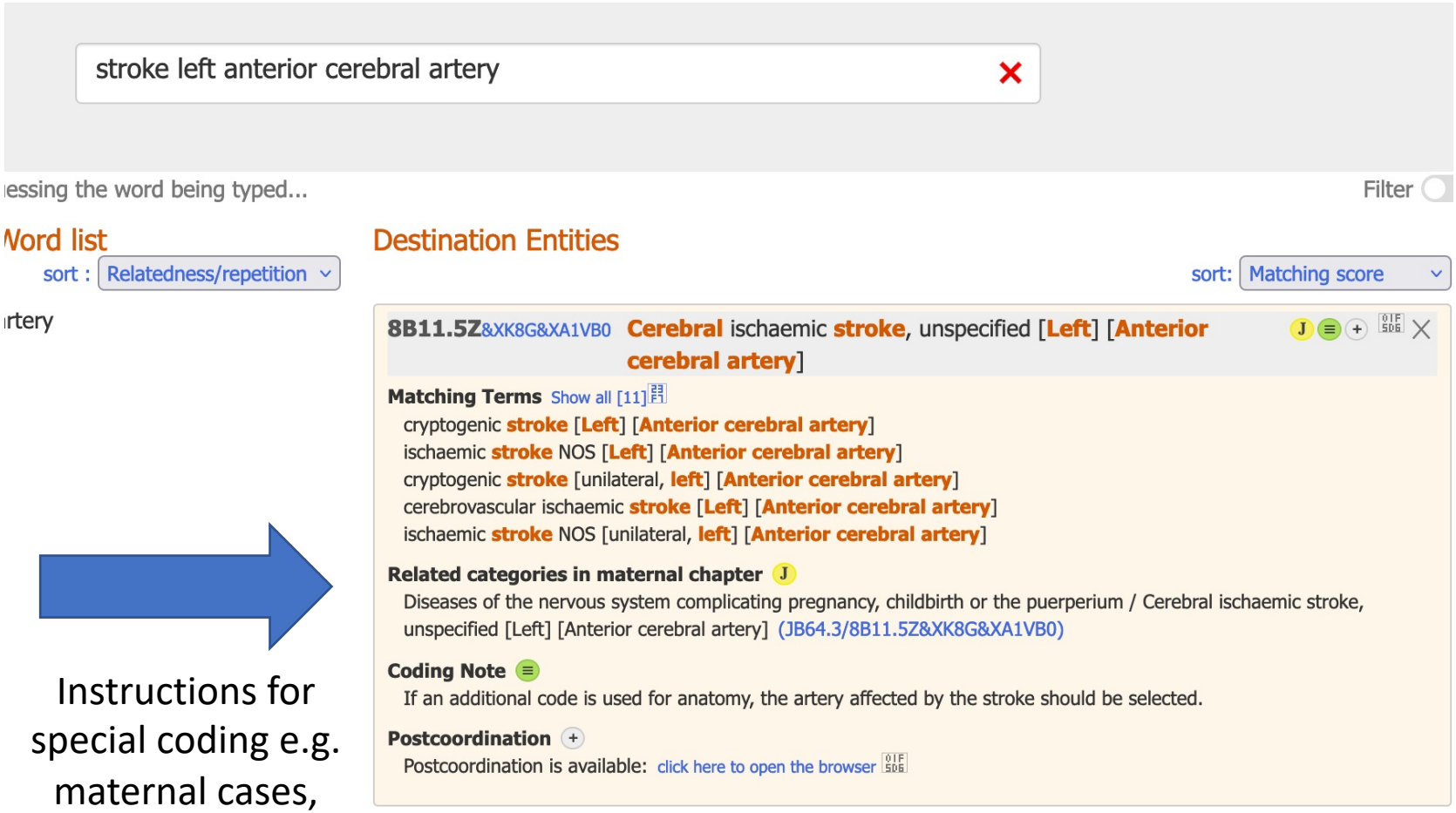
ICD-11

https://icd.who.int

World Health Organization

Coding Instructions

ICD-11

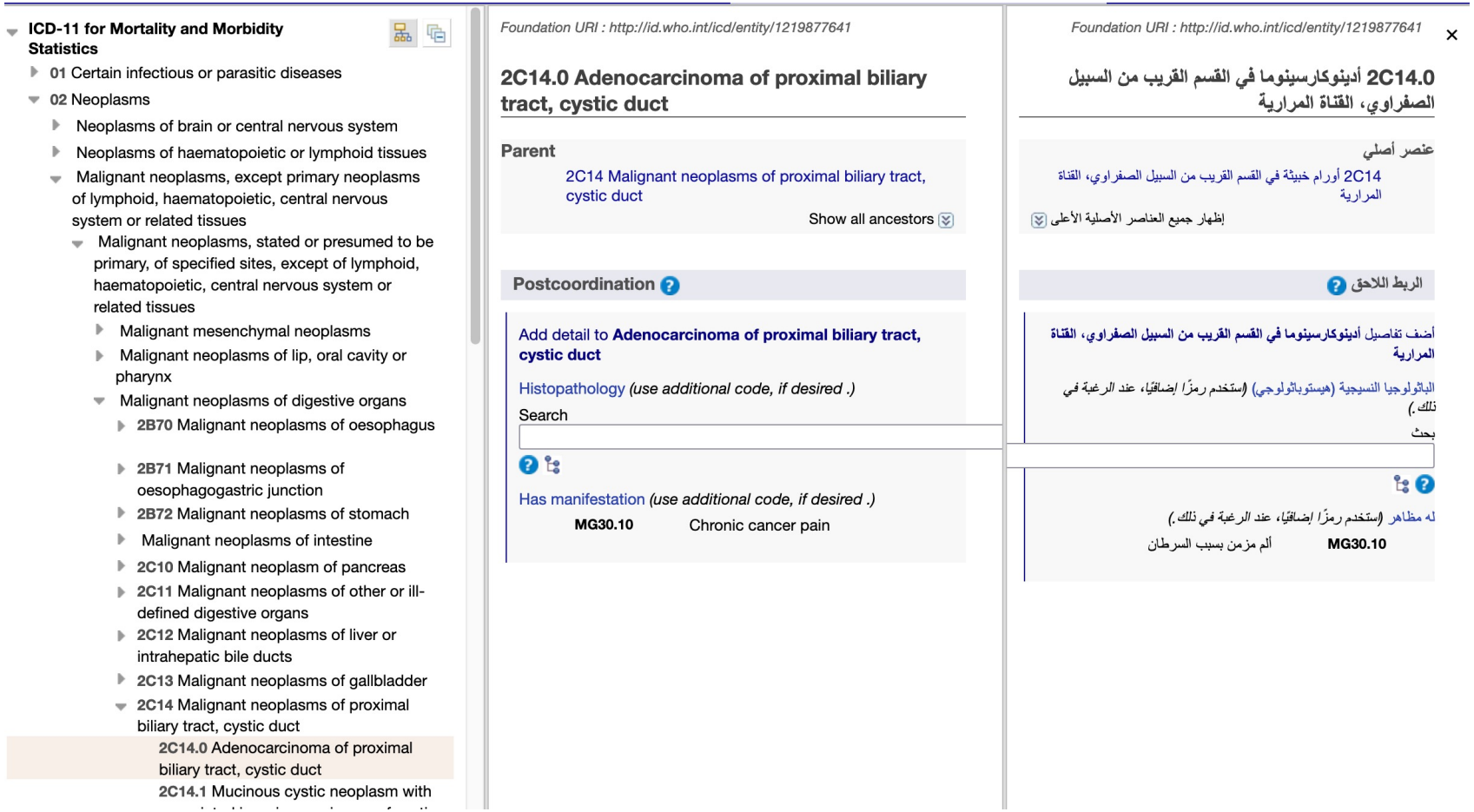


Instructions for special coding e.g. maternal cases, coding notes and for postcoordination (using code combinations)

Note: In ICD-11, some known frequent combinations are directly provided by the system. Other combinations need to be manually selected.

World Health Organization

Multilingual



French and Russian become available this year
20 more translations are being prepared

ICD-11

https://icd.who.int

World Health Organization

A Patient's path

ICD-11

Person worried, feels increasingly sick; some infection is circulating

ICD-11 Code the worry of the patient	Data inform planning of prevention

Practitioner identifies febrile viral infection

ICD-11 Code reason for encounter - infection	Data inform resource planning and epidemiology

Severity increases and referral to secondary care, intensive care, COVID-19 identified

ICD-11 Code reason for stay – COVID-19	Data inform resource planning, DRG, service availability and epidemiology
ICHI Code therapies	

Family members are checked for contagion

ICD-11 COVID-19 excluded	Data inform epidemiology, coding, service availability
ICHI Code diagnostic test	

World Health Organization

A Patient's path

ICD-11

A near incident occurs at the intensive care unit (failure infusion pump)

ICD-11	Code failure pump, no harm to patient

Data inform patient safety and quality monitoring, device safety monitoring, costing

Recovery requires physiotherapy

ICD-11	Code and assess functioning score
ICF	Code specific functioning
ICHI	Code physiotherapy

Data inform costing, DRG, service availability, resource planning, impact of services

Fitness has improved and the person is back to work

ICD-11	Code and assess functioning score
ICF	Code specific functioning

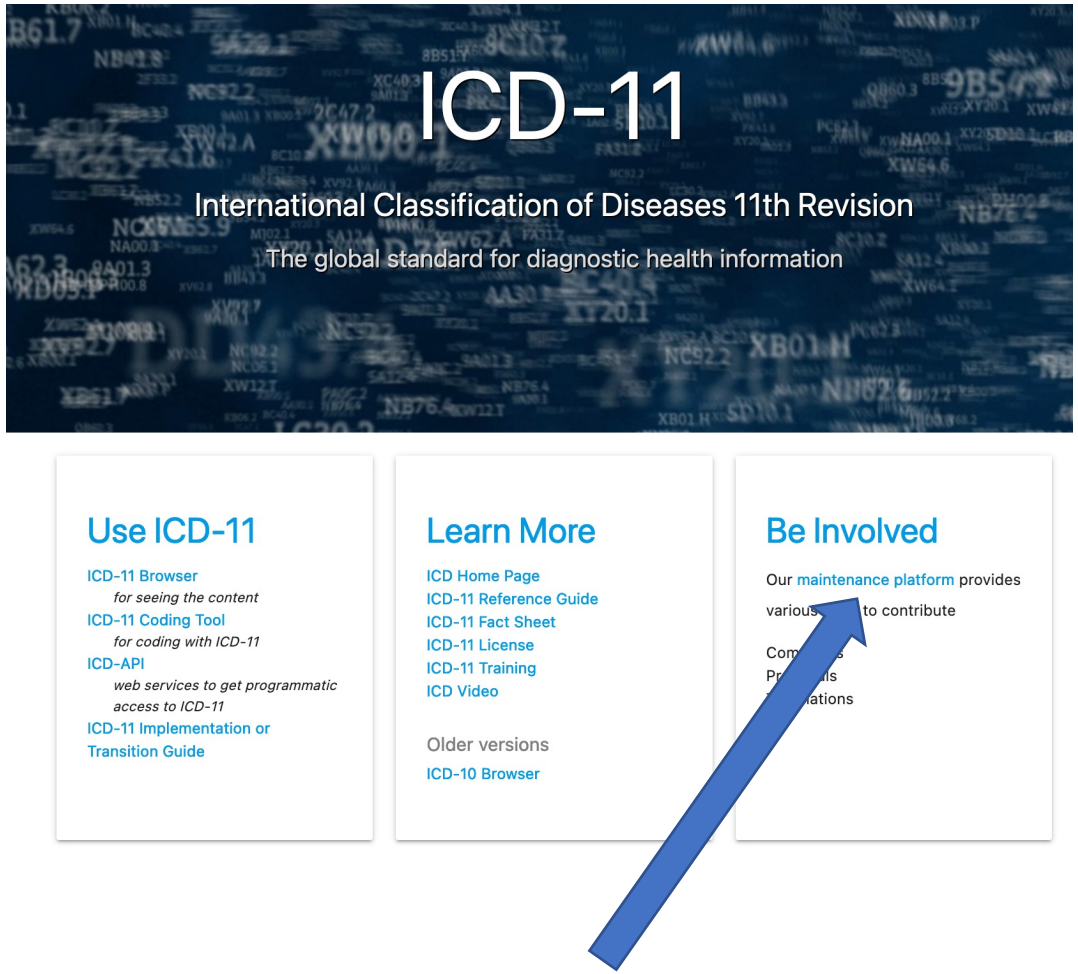
Data inform social insurance, rehabilitation and reintegration

World Health Organization

Easy to participate

Register yourself and submit a proposal providing

- **Rationale**
- **Scientific evidence**
- **Impact**

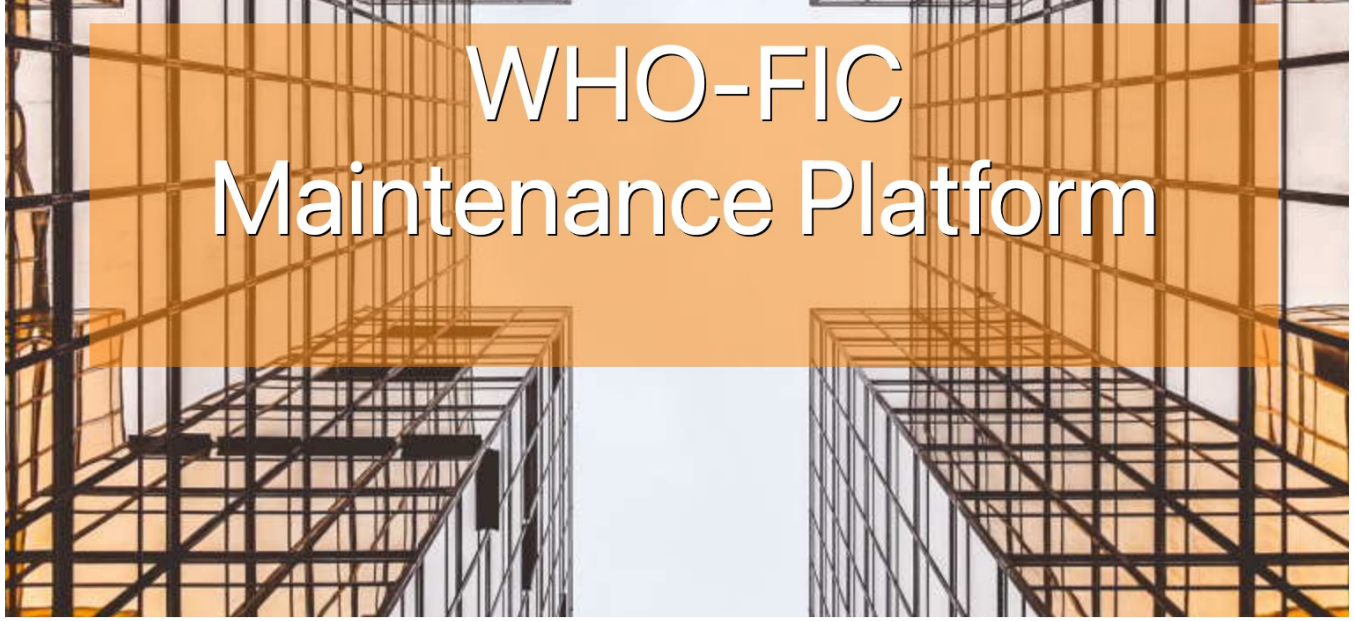


https://icd.who.int

World Health Organization

Easy to propose improvement

ICD-11



This site contains unreleased, work in progress versions of the WHO Family of International Classifications (WHO-FIC). For the latest release of ICD-11 visit ICD-11 Home Page

You need to create an account if you wish to contribute to the classifications by writing proposals or comments

Browse

Foundation
Browse the foundation component

Reference Classifications
ICD-11 MMS
ICD-11 Coding Tool
ICF
ICHI

Other Linearizations
Primary Care Linearization
more

Proposals

ICD-11
Add Proposals / See in hierarchy
Proposal list / Search

ICF
Add Proposals / See in hierarchy
Proposal list / Search

ICHI
Add Proposals / See in hierarchy
Proposal list / Search

Translation Platform

Assists the translation process.

Translation Platform can be used by registered translators only More info

https://icd.who.int

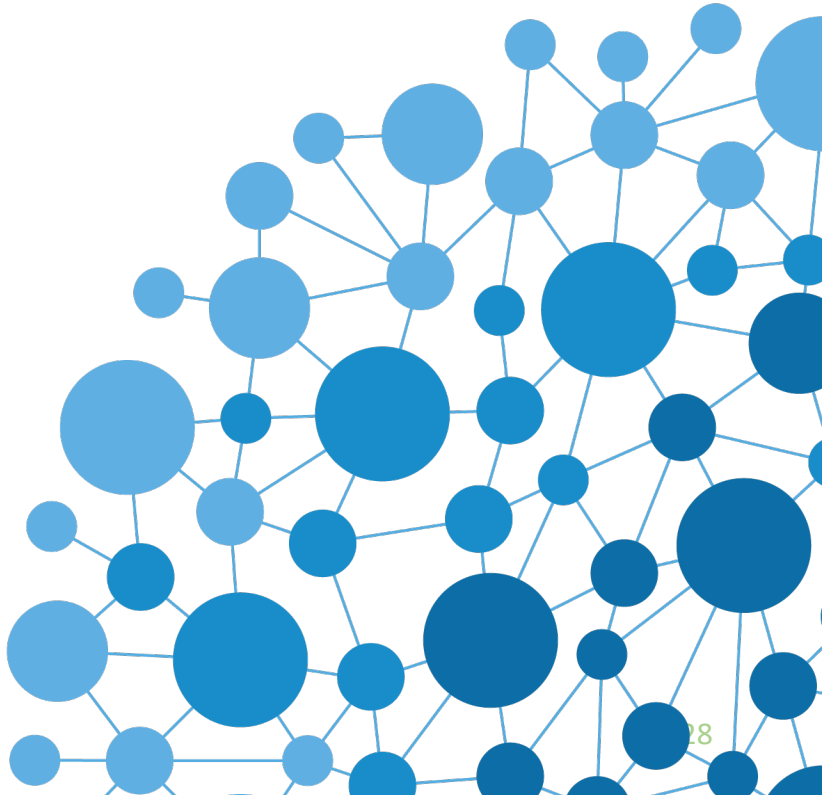
Access to information

ICD-11 home page: https://icd.who.int

Translations: Arabic, Chinese, English, French, Spanish, and Russian;

https://www.who.int/classifications

To submit questions and suggestions related to WHO-FIC, contact:

icd@who.int, whofic@who.int and ichi@who.int

Facebook Twitter