

# ICD-11

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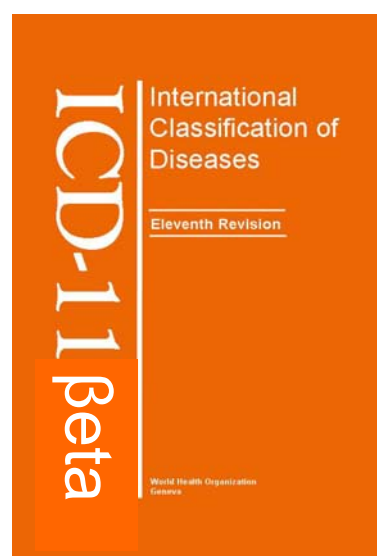


World Health  
Organization

## The International Classification of Diseases 11<sup>th</sup> Revision is due by 2017

ICD is the **international standard** to measure health & health services

- Mortality Statistics
- Morbidity Statistics
- Health Care Costs
- **Progress towards MDGs**



# ICD-11

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- A multi-purpose and coherent classification
  - Consistency & interoperability across different uses
- Serve as an international and multilingual reference standard
- Ensure that ICD-11 will function in an electronic environment

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## ICD-11 is designed for...

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- International:
  - Countries
  - Languages
  - Multiple health care systems
- Multiple Professionals
  - e.g. clinical specialties, nursing & midwifery
- Different health care aspects
  - Primary, secondary, tertiary care
  - Home care
  - Rehabilitation
  - Long term care
- Different sectors

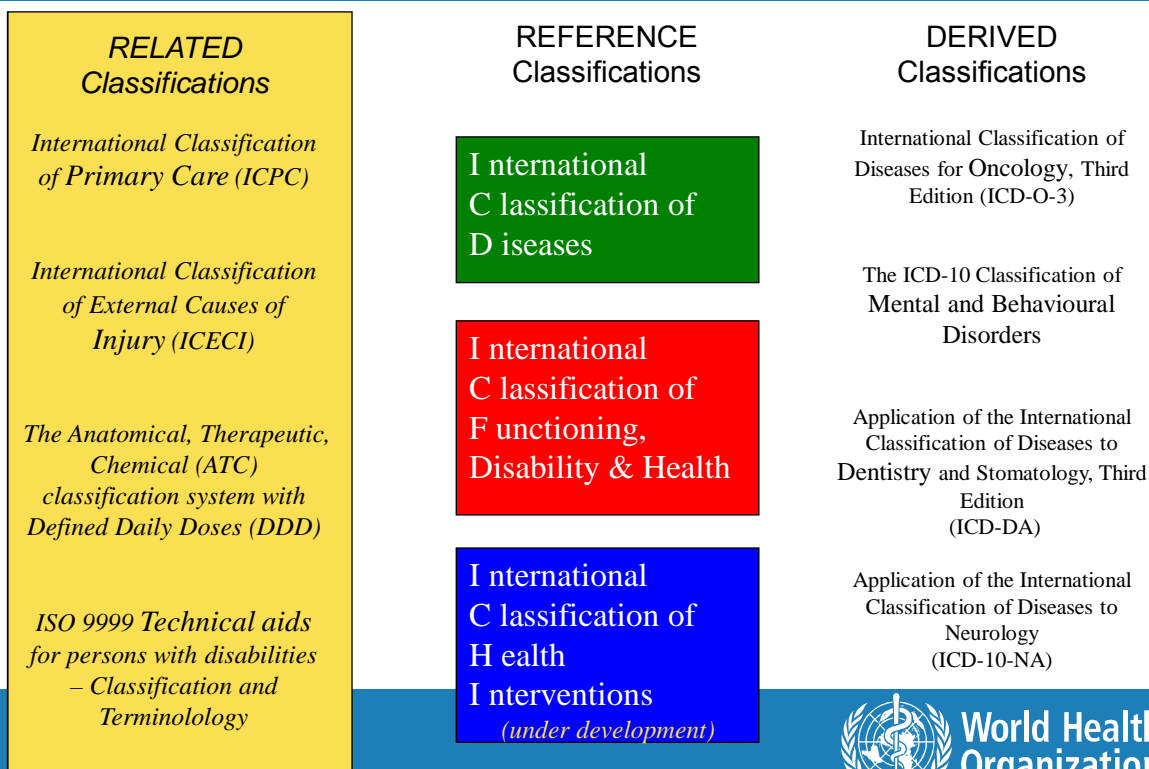
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# ICD is part of the WHO Family of International Classifications (WHO-FIC)



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## ICD MAINTENANCE

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# ICD-11 maintenance



## Internet-based permanent platform

All year round  
Open to all people in a structured way  
Content experts focus

## Digital curation

Wiki enabled collaboration  
Ontology based

## Enhanced discussion & peer review

TAGs serve as the editorial group

## Electronic copy → print version

## Work in multiple languages

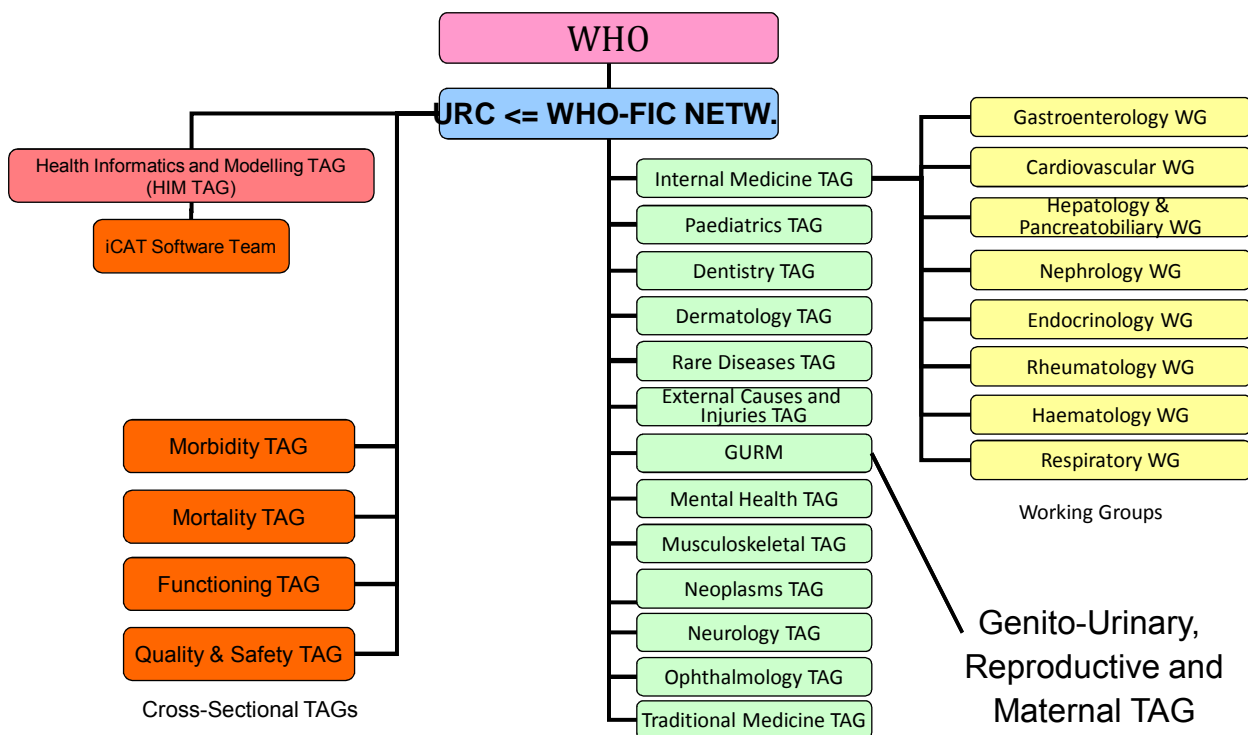
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## ICD Maintenance Structure



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# ICD CONTENT

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## Definition of Disease

**a set of dysfunction(s) in any of the body systems including:**

- with a known pattern of signs, symptoms & findings  
*Symptomatology – manifestations*
- probably with an underlying explanatory mechanism  
*Etiology*
- a distinct pattern of development over time  
*Course and outcome*
- a known pattern of response to interventions  
*Treatment response*
- with linkage to underlying genetic factors  
*Genotypes, phenotypes and endophenotypes*
- with linkage to interacting environmental factors

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# THE CONTENT MODEL

*Any Category in ICD is represented by:*

## 1. ICD Concept Title

## 2. Hierarchy, Type and Use

- a) Parents
- b) Type
- c) Use

## 3. Textual Definition(s)

## 4. Terms

### a) Index Terms

- 1. Synonyms
- 2. Inclusion Terms

### b) Exclusion Terms

## 5. Clinical Description

- 1. Body System(s)
- 2. Body Part(s) [Anatomical Site(s)]

## 1. Manifestation Properties

- a) Signs & Symptoms
- b) Findings

## 2. Causal Properties

- a) Etiology Type
  - i. Infection (agents)
  - ii. Injury (mechanisms)
- b) Risk Factors
- c) Genomic Characteristics

## 3. Temporal Properties

## 4. Severity Properties

## 5. Functional Properties

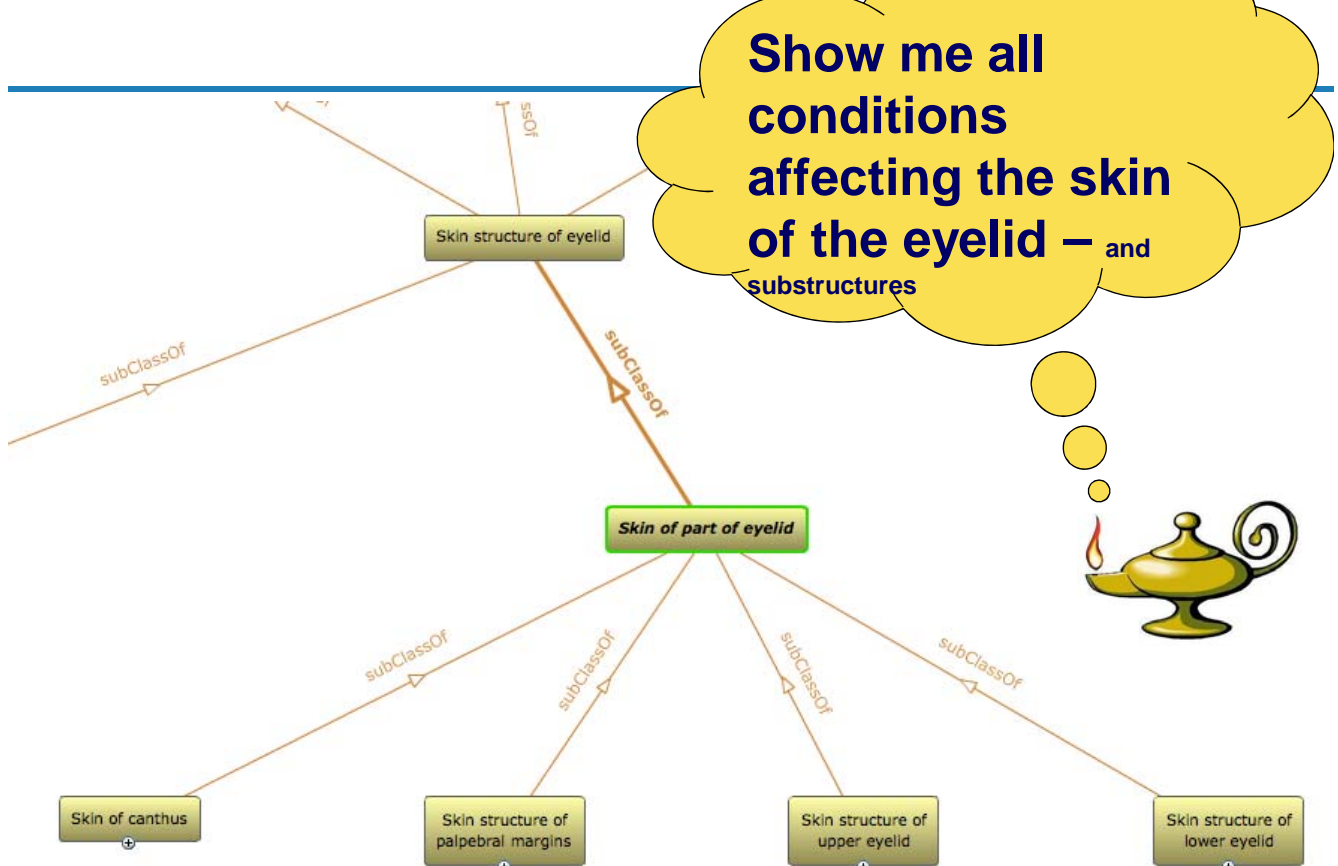
## 6. Specific Condition Properties

## 7. Treatment Properties

## 8. Diagnostic Criteria

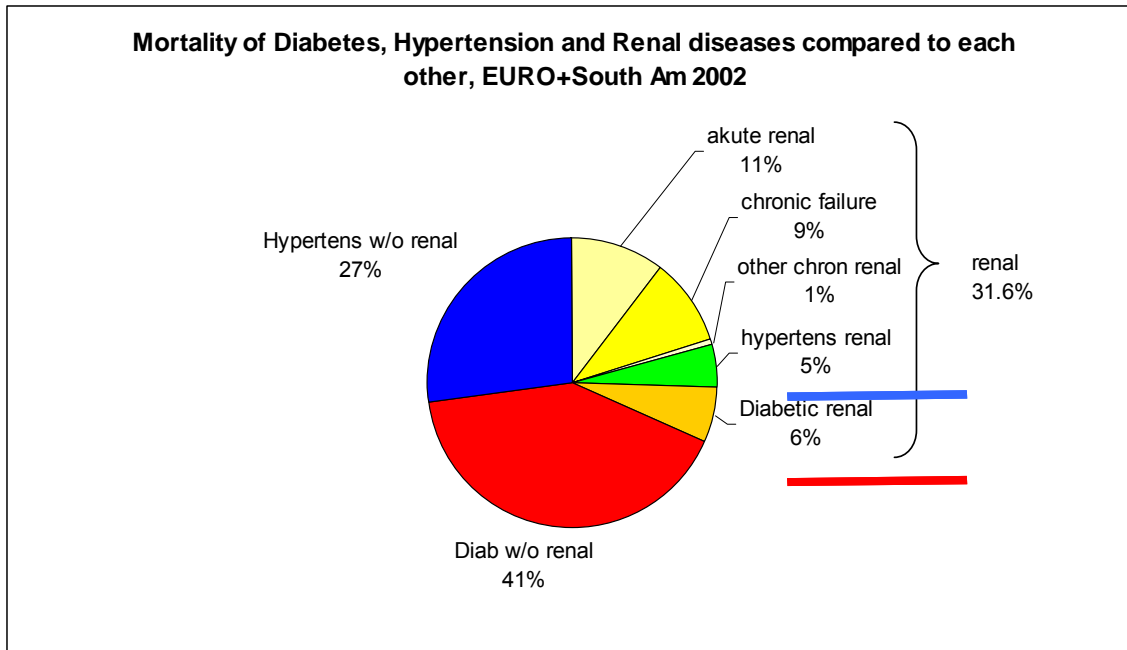


## Search - use of content model



# Aggregation - use of content model

## Kidney – Diabetes M. – A. Hypertension



## FOUNDATION AND LINEARIZATION



# The ICD Foundation Component



- **ALL ICD entities**
  - diseases, disorders...
- **With their**
  - Relationships
    - Multiple parenting
  - Content model
  - Instructions to build linearizations

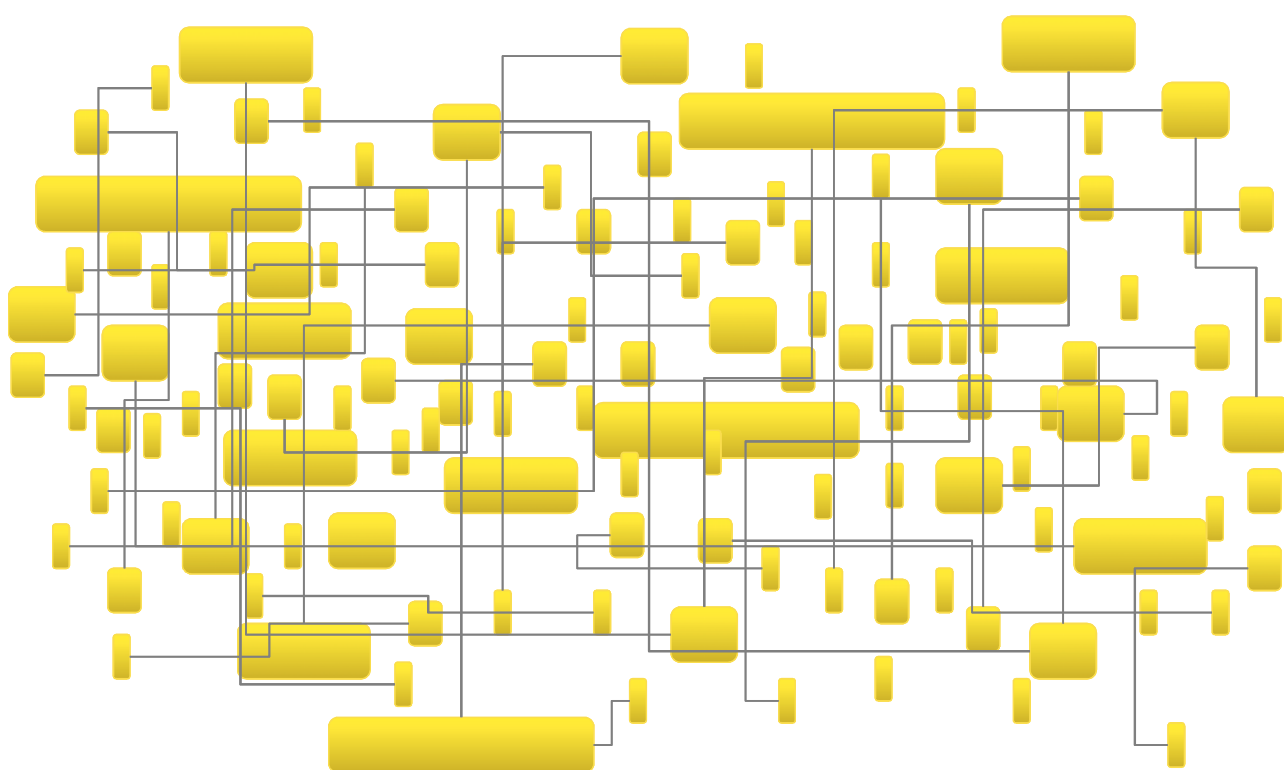
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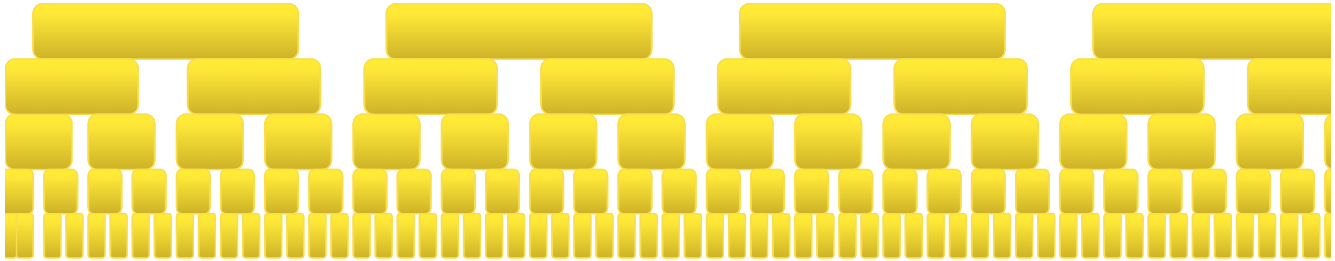
## The Foundation





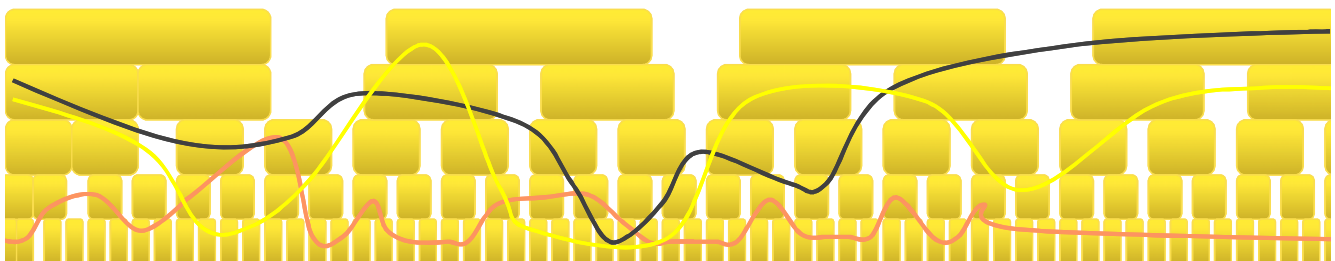
# Grouping entities

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# Formulating Linearizations

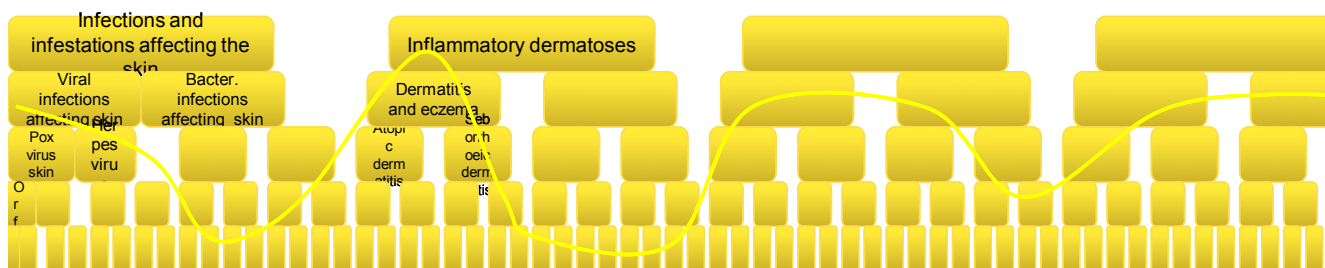
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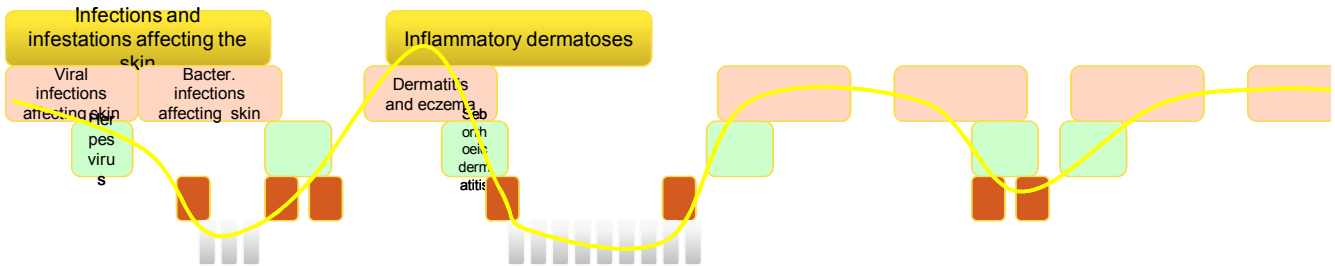
# Foundation

<a href="http://id.who.int/icd/entity/1561949126">http://id.who.int/icd/entity/1561949126</a>	- - - -	Infections due to Salmonella	Grouping
<a href="http://id.who.int/icd/entity/1958990204">http://id.who.int/icd/entity/1958990204</a>	- - - -	Salmonella Fever	Grouping
<a href="http://id.who.int/icd/entity/78638636">http://id.who.int/icd/entity/78638636</a>	- - - - -	Paratyphoid Fever	coded category
<a href="http://id.who.int/icd/entity/1045590756">http://id.who.int/icd/entity/1045590756</a>	- - - - -	Paratyphoid fever A	index or postcoordination
<a href="http://id.who.int/icd/entity/25782079">http://id.who.int/icd/entity/25782079</a>	- - - - -	Colitis due to paratyphoid fever A	index or postcoordination
<a href="http://id.who.int/icd/entity/1704920593">http://id.who.int/icd/entity/1704920593</a>	- - - - -	Enteritis due to paratyphoid fever A	index or postcoordination
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<a href="http://id.who.int/icd/entity/345609254">http://id.who.int/icd/entity/345609254</a>	- - - - -	Colitis due to paratyphoid fever B	index or postcoordination
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<a href="http://id.who.int/icd/entity/1781535490">http://id.who.int/icd/entity/1781535490</a>	- - - - -	Enteritis due to paratyphoid fever C	index or postcoordination
<a href="http://id.who.int/icd/entity/468854632">http://id.who.int/icd/entity/468854632</a>	- - - - -	Bacterial colitis due to paratyphoid fever	index or postcoordination
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## Formulating Linearizations



# Formulating Linearizations

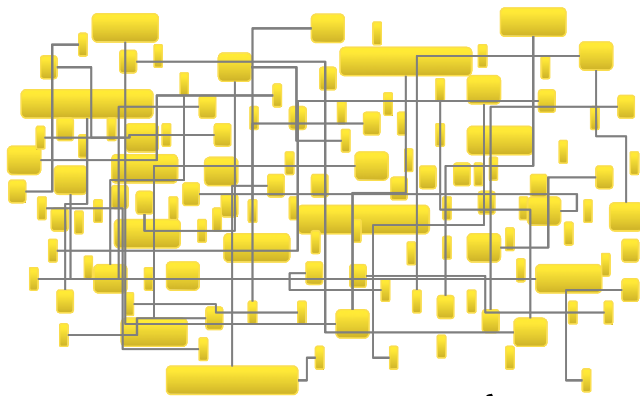
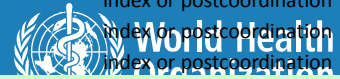


# Formulating Linearizations



# Foundation

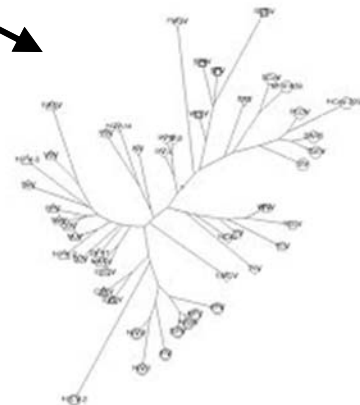
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<a href="http://id.who.int/icd/entity/725907799">http://id.who.int/icd/entity/725907799</a>	- - - - Colitis due to paratyphoid fever C	index or postcoordination
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<a href="http://id.who.int/icd/entity/1711457761">http://id.who.int/icd/entity/1711457761</a>	- - - - Typhoid osteomyelitis	index or postcoordination
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<a href="http://id.who.int/icd/entity/1758228980">http://id.who.int/icd/entity/1758228980</a>	- - - - Typhoid enteritis	index or postcoordination
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<a href="http://id.who.int/icd/entity/1520312138">http://id.who.int/icd/entity/1520312138</a>	- - - - Salmonella enteritis	coded category



Foundation

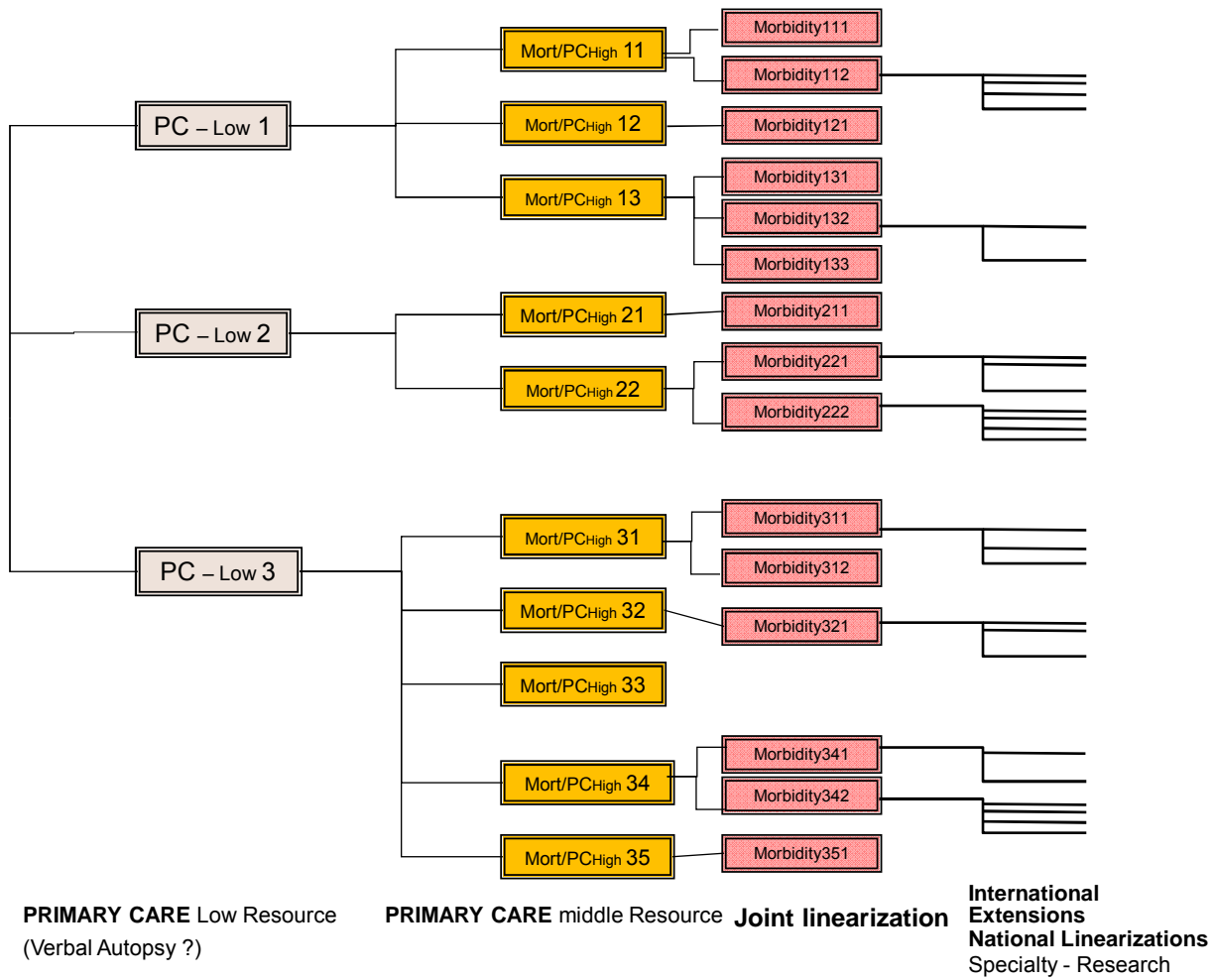
Classification -  
Foundation or  
linearization?

Linearization n

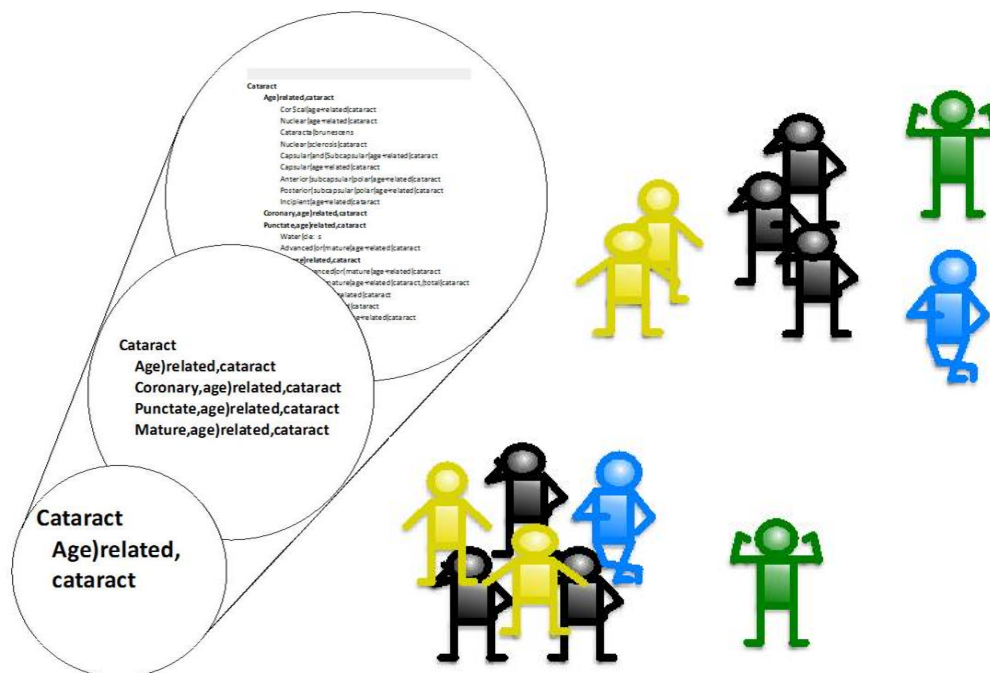


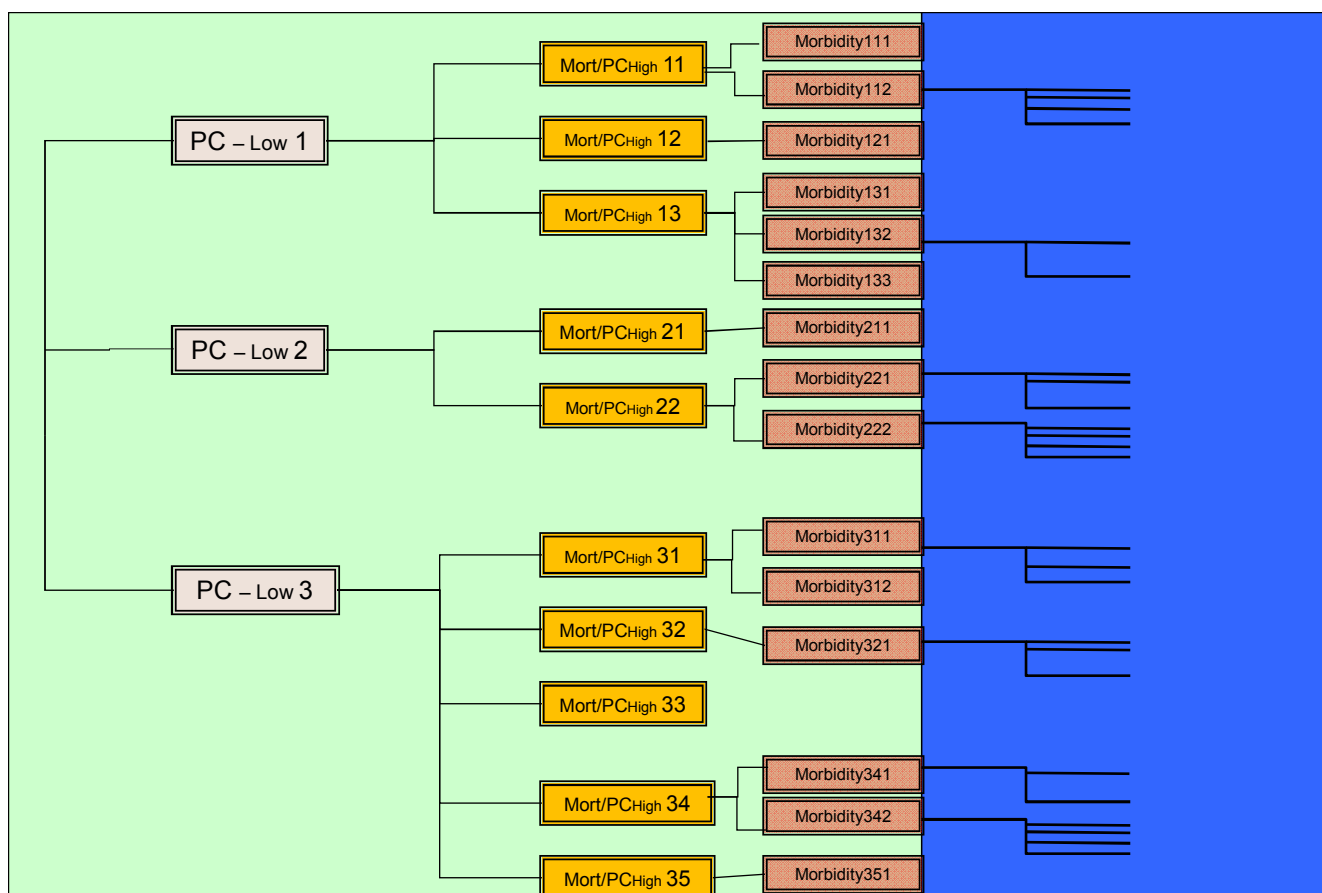
Linearization 1





## The Telescope





**PRIMARY CARE** Low Resource  
(Verbal Autopsy ?)

**PRIMARY CARE** middle Resource

**Joint linearization**

**International Extensions**  
**National Linearizations**  
Specialty - Research

## General criteria for determining pre-coordination - shorelining

- **Legacy** (esp. if used previously in Mortality linearization)
  1. **Scientific evidence**
  2. **Consistency** according to Taxonomical and ontological rules
  3. **Utility**
    - a) **Clinical – treatment grouping etc**
    - b) **Public Health - reportable disease etc**
  5. **“Use Case specific”**:
    - A. Frequency in practice setting for a given linearization  
( e.g. Primary Care, Verbal Autopsy...)

# Shoreline

## Boundary between **Pre-** and **Post-**Coordination



- **Mortality Linearization** uses only **Pre-**coordinated categories
- **Morbidity Linearization** uses both **Pre-** and **Post-** Coordinated entities
- **Specialty Linearizations** may use:
  - **Post-**Coordination and other extensions



Classification

## JOINT LINEARIZATION FOR MORTALITY AND MORBIDITY STATISTICS



# Foundation

<a href="http://id.who.int/icd/entity/1561949126">http://id.who.int/icd/entity/1561949126</a>	- - - - Infections due to Salmonella	Grouping
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<a href="http://id.who.int/icd/entity/1045590756">http://id.who.int/icd/entity/1045590756</a>	- - - - Paratyphoid fever A	index or postcoordination
<a href="http://id.who.int/icd/entity/25782079">http://id.who.int/icd/entity/25782079</a>	- - - - Colitis due to paratyphoid fever A	index or postcoordination
<a href="http://id.who.int/icd/entity/1704920593">http://id.who.int/icd/entity/1704920593</a>	- - - - Enteritis due to paratyphoid fever A	index or postcoordination
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<a href="http://id.who.int/icd/entity/416227453">http://id.who.int/icd/entity/416227453</a>	- - - - Enteritis due to paratyphoid fever B	index or postcoordination
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<a href="http://id.who.int/icd/entity/468854632">http://id.who.int/icd/entity/468854632</a>	- - - - Bacterial colitis due to paratyphoid fever	index or postcoordination
<a href="http://id.who.int/icd/entity/725907799">http://id.who.int/icd/entity/725907799</a>	- - - - Colitis due to paratyphoid fever C	index or postcoordination
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<a href="http://id.who.int/icd/entity/587904348">http://id.who.int/icd/entity/587904348</a>	- - - - Typhoid colitis	index or postcoordination
<a href="http://id.who.int/icd/entity/1520312138">http://id.who.int/icd/entity/1520312138</a>	- - - - Salmonella enteritis	coded category

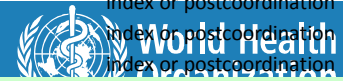
# Linearization

Code	Title (with indent)	Kind	Automated residual	Primary location
	- - - - Infections due to Salmonella	Block	FALSE	TRUE
	- - - - Salmonella Fever	Block	FALSE	TRUE
1A0H	- - - - Paratyphoid Fever	Category	FALSE	TRUE
1A0J	- - - - Typhoid fever	Category	FALSE	TRUE
1A0Y	- - - - Other specified salmonella Fever	Category	TRUE	TRUE
1A0Z	- - - - Salmonella Fever, unspecified	Category	TRUE	TRUE
1A10	- - - - Salmonella enteritis	Category	FALSE	TRUE



# Foundation

<a href="http://id.who.int/icd/entity/1561949126">http://id.who.int/icd/entity/1561949126</a>	- - - - - Infections due to Salmonella	Grouping
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<a href="http://id.who.int/icd/entity/1704920593">http://id.who.int/icd/entity/1704920593</a>	- - - - - Enteritis due to paratyphoid fever A	index or postcoordination
<a href="http://id.who.int/icd/entity/1258234397">http://id.who.int/icd/entity/1258234397</a>	- - - - - Paratyphoid fever B	index or postcoordination
<a href="http://id.who.int/icd/entity/345609254">http://id.who.int/icd/entity/345609254</a>	- - - - - Colitis due to paratyphoid fever B	index or postcoordination
<a href="http://id.who.int/icd/entity/416227453">http://id.who.int/icd/entity/416227453</a>	- - - - - Enteritis due to paratyphoid fever B	index or postcoordination
<a href="http://id.who.int/icd/entity/800386953">http://id.who.int/icd/entity/800386953</a>	- - - - - Paratyphoid fever C	index or postcoordination
<a href="http://id.who.int/icd/entity/725907799">http://id.who.int/icd/entity/725907799</a>	- - - - - Colitis due to paratyphoid fever C	index or postcoordination
<a href="http://id.who.int/icd/entity/1781535490">http://id.who.int/icd/entity/1781535490</a>	- - - - - Enteritis due to paratyphoid fever C	index or postcoordination
<a href="http://id.who.int/icd/entity/468854632">http://id.who.int/icd/entity/468854632</a>	- - - - - Bacterial colitis due to paratyphoid fever	index or postcoordination
<a href="http://id.who.int/icd/entity/725907799">http://id.who.int/icd/entity/725907799</a>	- - - - - Colitis due to paratyphoid fever C	index or postcoordination
<a href="http://id.who.int/icd/entity/345609254">http://id.who.int/icd/entity/345609254</a>	- - - - - Colitis due to paratyphoid fever B	index or postcoordination
<a href="http://id.who.int/icd/entity/25782079">http://id.who.int/icd/entity/25782079</a>	- - - - - Colitis due to paratyphoid fever A	index or postcoordination
<a href="http://id.who.int/icd/entity/1528414070">http://id.who.int/icd/entity/1528414070</a>	- - - - - Typhoid fever	coded category
<a href="http://id.who.int/icd/entity/55117941">http://id.who.int/icd/entity/55117941</a>	- - - - - Typhoid arthritis	index or postcoordination
<a href="http://id.who.int/icd/entity/367810165">http://id.who.int/icd/entity/367810165</a>	- - - - - Typhoid fever with heart involvement	index or postcoordination
<a href="http://id.who.int/icd/entity/1890032609">http://id.who.int/icd/entity/1890032609</a>	- - - - - Typhoid pneumonia	index or postcoordination
<a href="http://id.who.int/icd/entity/1711457761">http://id.who.int/icd/entity/1711457761</a>	- - - - - Typhoid osteomyelitis	index or postcoordination
<a href="http://id.who.int/icd/entity/1631651468">http://id.who.int/icd/entity/1631651468</a>	- - - - - Typhoid meningitis	index or postcoordination
<a href="http://id.who.int/icd/entity/1758228980">http://id.who.int/icd/entity/1758228980</a>	- - - - - Typhoid enteritis	index or postcoordination
<a href="http://id.who.int/icd/entity/587904348">http://id.who.int/icd/entity/587904348</a>	- - - - - Typhoid colitis	index or postcoordination
<a href="http://id.who.int/icd/entity/1520312138">http://id.who.int/icd/entity/1520312138</a>	- - - - - Salmonella enteritis	coded category



## Indexed entries

- 1A0H - - - - - Paratyphoid Fever Bacterial colitis due to paratyphoid fever
- 1A0H - - - - - Paratyphoid Fever Colitis due to paratyphoid fever A
- 1A0H - - - - - Paratyphoid Fever Colitis due to paratyphoid fever B
- 1A0H - - - - - Paratyphoid Fever Colitis due to paratyphoid fever C
- 1A0H - - - - - Paratyphoid Fever Enteritis due to paratyphoid fever A
- 1A0H - - - - - Paratyphoid Fever Enteritis due to paratyphoid fever B
- 1A0H - - - - - Paratyphoid Fever Enteritis due to paratyphoid fever C
- 1A0H - - - - - Paratyphoid Fever infection; salmonella, paratyphi, a
- 1A0H - - - - - Paratyphoid Fever infection; salmonella, paratyphi, b
- 1A0H - - - - - Paratyphoid Fever infection; salmonella, paratyphi, c
- 1A0H - - - - - Paratyphoid Fever infection; salmonella, schottmuelleri
- 1A0H - - - - - Paratyphoid Fever paratyphoid a

## Infections due to Salmonella

Salmonella infection with fever, abdominal pain, diarrhoea, nausea and sometimes vomiting is caused by Salmonella which is a major cause of foodborne illness throughout the world and is generally transmitted to humans through consumption of contaminated food. The symptoms of Salmonella infection usually appear 12–72 hours after infection and usually last 4–7 days. Most people recover without treatment, however, in the very young and the elderly, and in cases when the bacteria enter the bloodstream, antibiotherapy may be needed.

### Salmonella Fever

1A0H

Paratyphoid Fever

1A0J

Typhoid fever

Acute systemic febrile infection caused by *Salmonella typhi*, with insidious onset of sustained fever, marked headache, malaise, anorexia, relative bradycardia, splenomegaly, non productive cough in the early stage of the illness, rose spots on the trunk in 25% of white skinned patients and constipation more often than diarrhoea in adults.

**Inclusions:** Infection due to *Salmonella typhi*

1A0Y

Other specified salmonella Fever

1A0Z

Salmonella Fever, unspecified

1A10

Salmonella enteritis

Poisoning caused by ingestion of food harboring species of *Salmonella*; conditions of raising, shipping, slaughtering, and marketing of domestic animals contribute to the spread of this bacterium in the food supply.

**Inclusions:** Salmonellosis

Print version

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#### infectious diseases by infectious agent

##### Infections due to Bacteria

###### Infections due to Vibrio

###### Infections due to Salmonella

###### Salmonella Fever

1A0H Paratyphoid Fever

1A0J Typhoid fever

1A0Y Other specified salmonella Fever

1A0Z Salmonella Fever, unspecified

1A10 Salmonella enteritis

1A11 Salmonella colitis

1A12 Salmonella sepsis

1A13 Carrier of typhoid

1A1F Other specified infections due to Salmonella

1A1G Infections due to Salmonella, unspecified

###### Infections due to Shigella

###### Infections due to Escherichia

###### Infections due to Campylobacter

###### Infections due to Enterobacter

###### Infections due to Helicobacter

###### Infections due to Mycobacterium

###### Infections due to Yersinia

###### Infections due to Francisella

Foundation Id : <http://id.who.int/icd/entity/1520312138> - link to iCat



### 1A10 Salmonella enteritis

#### Parent

Infections due to Salmonella

Show all ancestors up to top

ICD-10 : A02.0

#### Definition

Poisoning caused by ingestion of food harboring species of *Salmonella*; conditions of raising, shipping, slaughtering, and marketing of domestic animals contribute to the spread of this bacterium in the food supply.

#### Inclusions

- Salmonellosis

#### All Index Terms

- Salmonella enteritis
- Salmonellosis
- enteric paratyphosis
- food; poisoning, due to salmonella
- poisoning; food, due to salmonella, with gastroenteritis
- salmonella enterica subspecies arizonae infection
- salmonella food poisoning
- salmonella gastroenteritis
- salmonella; infection, with (gastro)enteritis
- salmonella dysentery

Hide index terms

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## 'VOLUMES OF ICD-11'

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---

## ICD-11 -Joint Linearization for Mortality and Morbidity Statistics

---

- Volume 1 – The Tabular List
  - 26 chapters, some 15000 categories
  - 5 special tabulation lists : not designed for coding
  - X-chapter : describe in more detail a condition
- Volume 3 – The Alphabetical Index
- Volume 2 – The Reference Guide
  - introduction to context, components and intended use ICD

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# Structure of volume 1

---

- ICD-11 : Alphanumeric codes: from 1A00 to QF3Z
  - alphanumeric listing of diseases and disease groups
  - Number of codes possible in theory
  - Grouping with specific purpose
- Hierarchy
  - Chapters
    - Groups of categories (blocks)
      - N- character categories
      - N+2 character subcategories
- Add detail: X-chapter



## Content of Volume 2 - Reference Guide

---

- Purpose of ICD: Multiple Uses
- Structure and Content of the ICD
- How to use the ICD
- Main Uses of the ICD: Mortality, Morbidity
- Statistical presentation
- History



# Volume 3 - Index

---

Lead terms and keywords point to ICD categories

- Instructions
- Index to diseases and nature of injury
- External causes of injury
- Table of drugs and chemicals

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## MULTIPLE PARENTING

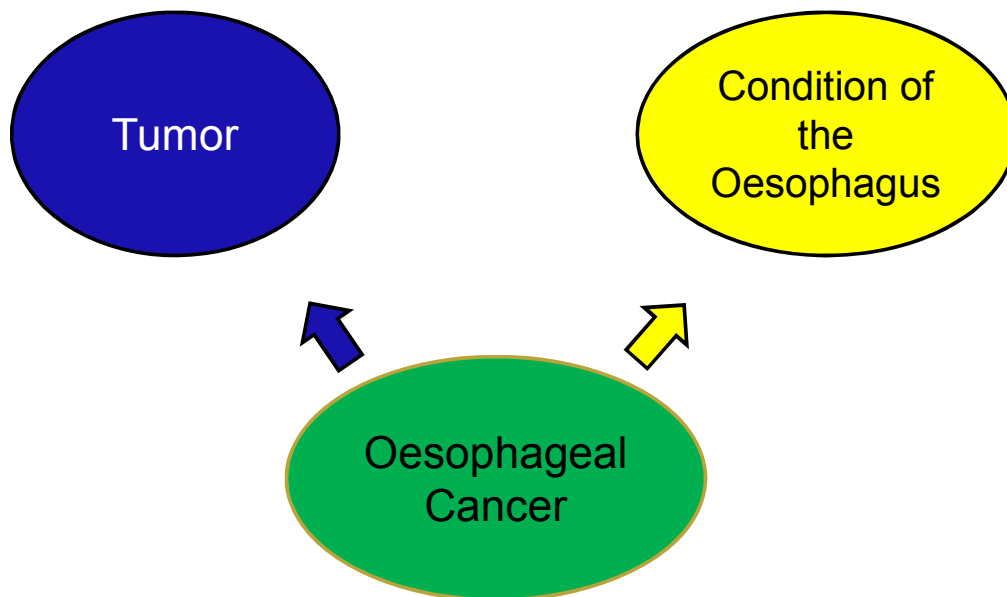
42

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## Two possible parents



## Multiple parenting

### 02 Neoplasms

- Neoplasms of brain and central nervous system
- Neoplasms of haematopoietic and lymphoid tissues
- Malignant neoplasms
  - Malignant neoplasms, stated or presumed to be primary, of specified sites, except of lymphoid, haematopoietic and related tissues
    - Malignant mesenchymal neoplasms
    - Malignant neoplasms of lip, oral cavity and pharynx
    - Malignant neoplasms of digestive organs
      - **2C80** Malignant neoplasms of oesophagus

*Malignant neoplasms of the oesophagus have their primary location, in Chapter 2, Neoplasms, and they are coded there (all codes of that chapter start with 2).*

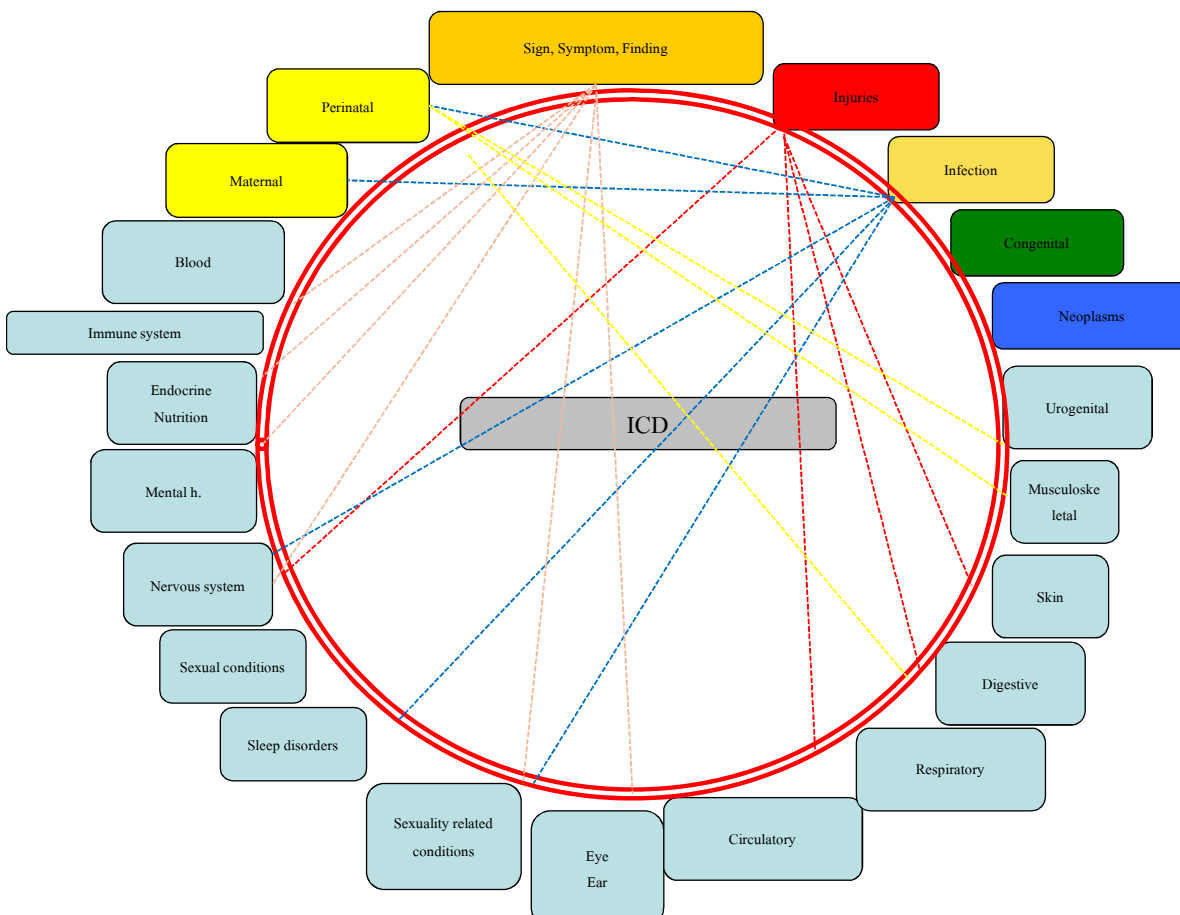
# Multiple parenting

- 13 Diseases of the digestive system
  - Diseases and disorders of orofacial complex
  - Diseases of oesophagus
    - Anatomical alterations of the oesophagus
    - Vascular disorders of the oesophagus
    - DB30 Oesophagitis
    - Neoplasms of the oesophagus
      - 2H82.1 Benign neoplasm of oesophagus
      - 2C80 Malignant neoplasms of oesophagus

Thanks to multiple parenting, *malignant neoplasms of the oesophagus* can also be accessed browsing through Chapter 13, Digestive system (all codes of this chapter start with D). The multiple parented neoplasm categories show up in grey and keep their code of their primary location, Chapter 2, Neoplasms (all codes of that chapter start with 2).



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NON EXHAUSTIVE illustration of multiple parenting across chapters. Things are shown in their primary location in the classification, but also in other places where they have been parented to.

# Multiple parenting use- Eye Example

(some categories removed to better show the principle)

## Primary Care

Diseases of the eye and adnexa	
KD50	Red eye
KD51	Visual floaters or spots
KD8Z	Symptoms, signs, findings and clinical forms
1J70.1	Ocular onchocerciasis
2F1Z	Neoplasms of eye and ocular adnexa
2F14	Neoplasm of uncertain behaviour of eye and
8A1I	Acute conjunctivitis
8D85	Conjunctival/Subconjunctival haemorrhage
8A4Z	Inflammatory disorders of eyelid
8A71	Entropion of eyelid
LA30.2	Contusion of eyelid and periocular area
LA36	Other and unspecified injury of eye and orbit

## ICD

<b>Infectious Diseases</b>	
	Infections of the eye and adnexa
1Z	Other and unspecified infections of eye and adnexa
<b>Neoplasms</b>	
1Z	Neoplasms of eye and ocular adnexa
14	Neoplasm of uncertain behaviour of eye and ocular adnexa
<b>Diseases of the eye and adnexa</b>	
1I	Acute conjunctivitis
<b>Symptoms, signs, findings and clinical forms</b>	
	Symptoms, signs, findings and clinical forms involving eye
50	Red eye
<b>Malformations</b>	
37	Structural developmental anomalies of eyelid, lacrimal apparatus and orbit
<b>Injuries</b>	
	Injury of eye

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# Multiple Parenting

## In linearization

- Category has only one code
- Primary parent determines code
- Shown in different places with always the same code

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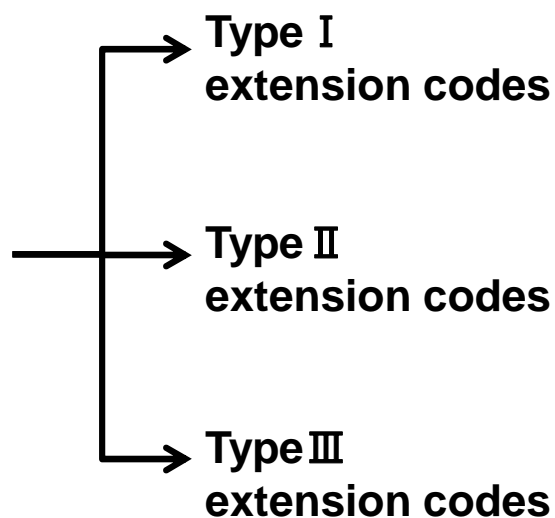


# PRECOORDINATION POSTCOORDINATION



## Multiple coding - postcoordination

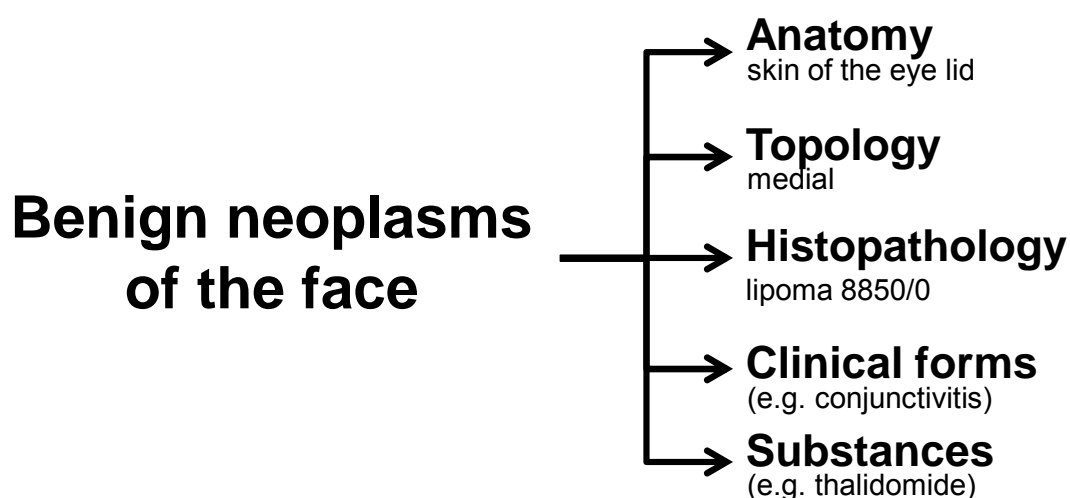
### Chapter X



# X – Chapter: Extension Codes

Type 1	Type 2	Type 3
Severity	Main Condition (types)	History of
Temporality (course of the condition)	Reason for encounter/admission	Family History of
Temporality (Time in Life)	Main Resource Condition	Screening/Evaluation
Etiology	Present on Admission	
Anatomic detail Topology Specific Anatomic Location	Provisional diagnosis	
Histopathology	Diagnosis confirmed by	
Biological Indicators	Rule out / Differential	
Consciousness		
External Causes (detail)		
Injury Specific (detail)		
		51

## Multiple coding - postcoordination



# Multiple Coding Equivalent Expressions

---

## Cluster Style

- Code1\*
- Code2\*
- Code3\*
- ..
- \* CLUSTERING IND.

## Chain / String Style

- Code1/Code2/Code3



# Multiple Coding Equivalent Expressions

---

## STEMI - posterior wall – confirmed by EKG

### Cluster Style

- **JH61.001** Myocardial Infarction  
with ST Elevation
- **XT00.??1** Posterior wall of heart
- **XD00.11** Diagnosis Confirmed  
by EKG

### Chain / String Style

**JH61.10/ XT00.??/ XD00.1**



# Postcoordination

---

- X-chapter – codes to be used only in conjunction with stem code
  - Histology
  - Anatomy
  - Substances
  - ...
- Signs and symptoms chapter (formerly XVIII)
  - Codes can be used alone, but adding additional detail from other chapters is recommended.
- All chapters
  - In principle, codes of all chapters can be combined – following rules.

**Postcoordination must never be used to replicate the meaning of an existing stem code**



---

## TRANSLATION PLATFORM



# Screenshot – Main Translation Screen

Signed in as: Can Celik | Profile | Log Out
Translations ICD11 Beta

Search 
[ Advanced Search ]
Foundation
Linearizations
Contributions
Admin
Info

- French Translation Home
- ▶ 90% Infectious diseases
- ▶ 90% Neoplasms
- ▶ 90% Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism
- ▶ 90% Endocrine, nutritional and metabolic diseases
- ▶ 90% Mental and behavioural disorders
- ▶ 90% Diseases of the nervous system
- ▶ 90% Diseases of the eye and adnexa
- ▶ 90% Diseases of the ear and mastoid process
- ▶ 90% Diseases of the circulatory system
- ▶ 90% Diseases of the respiratory system
- ▶ 90% Diseases of the digestive system
- ▶ 90% Diseases of the skin
- ▶ 90% Diseases of the musculoskeletal system and connective tissue
- ▶ 90% Diseases of the genitourinary system
- ▶ 80% Pregnancy, childbirth and the puerperium
- ▶ 90% Certain conditions originating in the perinatal period
- ▶ 60% Developmental anomalies
- ▶ 90% Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified
- ▶ 90% Injury, poisoning and certain other consequences of external causes
- ▶ 90% External causes of morbidity and mortality
- ▶ 90% Factors influencing health status and contact with health services
- ▶ 90% Codes for special purposes
- ▶ 0% Traditional Medicine conditions - Module I (Note: This is a provisional title for ICD-11 Beta Phase)
- ▶ 0% Special tabulation lists for mortality and morbidity

**IMPORTANT!**

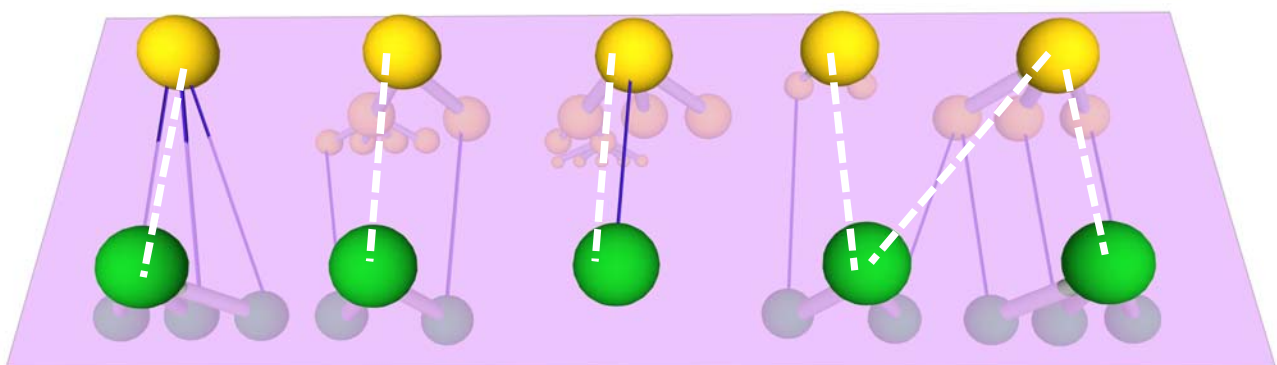
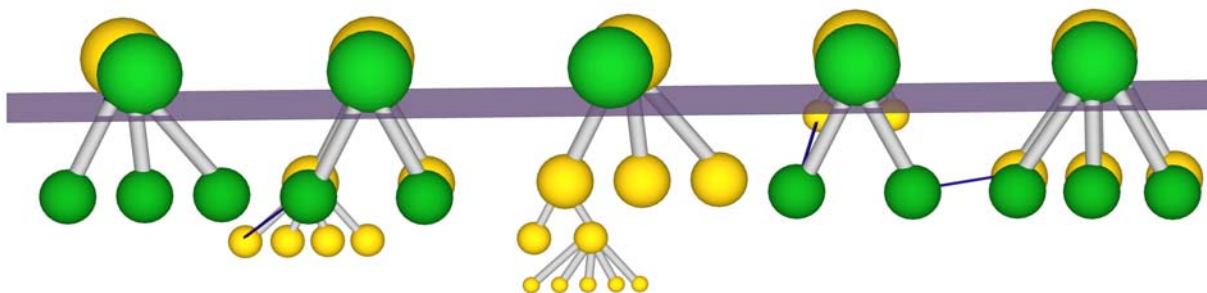
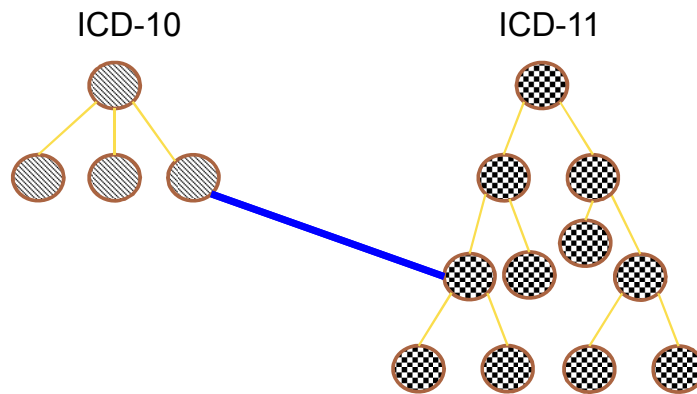
## Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism

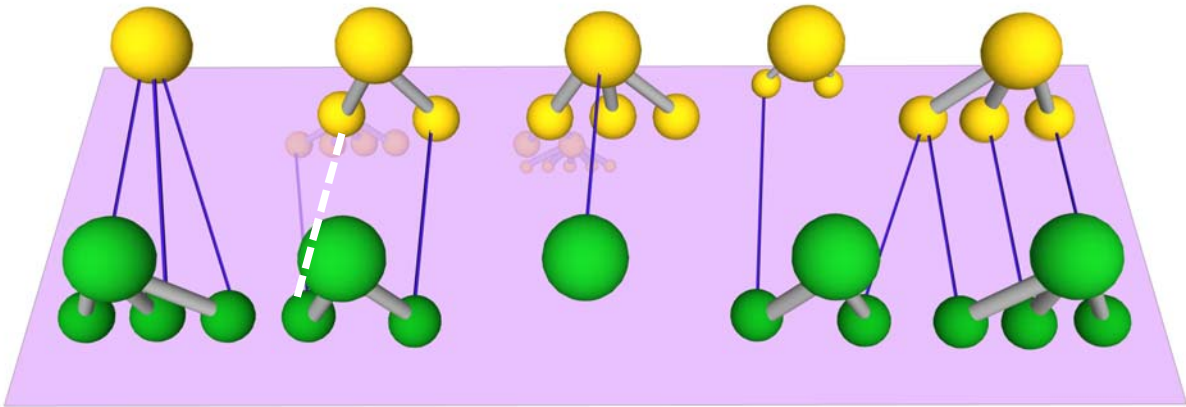
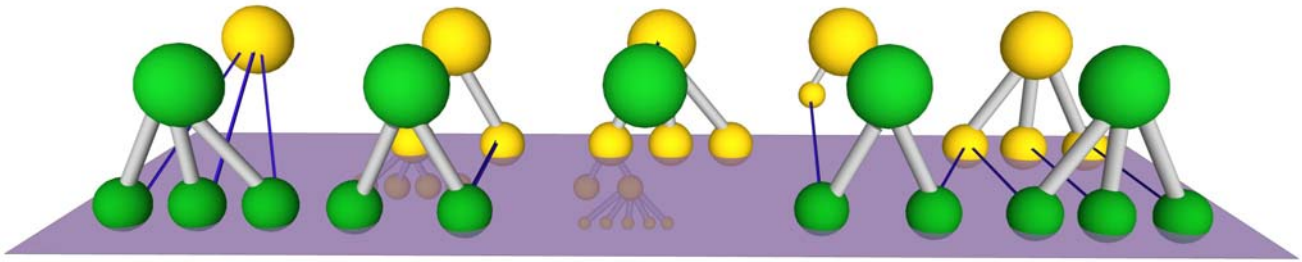
English	French		
<b>Definition</b>		Current Stage	Next Stage Approve
Definition does not exist in the source			
<b>Title and Synonyms</b>		Is Title	Is Title
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	<input checked="" type="radio"/> Maladies du sang et des organes hématopoïétiques et certains troubles du système immunitaire	<input checked="" type="radio"/> Stage2	<input type="checkbox"/> Stage3
<b>Add here other synonyms that have no English equivalent.</b> (If there are more than one add only one and the system will provide a new empty space after you submit)		<input type="text"/> Stage2	
<b>Exclusions</b>			
complications of pregnancy, childbirth and the puerperium	complications de la grossesse, de l'accouchement et de la puerpéralité	<input checked="" type="radio"/> Stage2	<input type="checkbox"/> Stage3
congenital malformations, deformations and chromosomal abnormalities	malformations congénitales et anomalies chromosomiques	<input checked="" type="radio"/> Stage2	<input type="checkbox"/> Stage3
autoimmune disease (systemic) NOS	maladies auto-immunes (systémiques) SAI	<input checked="" type="radio"/> Stage2	<input type="checkbox"/> Stage3
certain conditions originating in the perinatal period	certaines affections dont l'origine se situe dans la période périnatale	<input checked="" type="radio"/> Stage2	<input type="checkbox"/> Stage3

## CROSSWALK PLATFORM



# Crosswalk





ICD11 <http://apps.who.int/classifications/icd11/browserthenextgeneration/mapping#/?c=f&e=1> ICD11-ICD10 Mapping Signed in as: Can Celik | Profile | Log Out

## Mappings

search ICD-11 [Advanced Search] Browse Contributions More... [Advanced Search]

ICD-11 Beta Draft

- ▶ Infectious diseases
- ▶ Neoplasms
- ▶ Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism
- ▶ Endocrine, nutritional and metabolic diseases
- ▶ Mental and behavioural disorders
- ▶ Sleep-wake disorders
- ▶ Diseases of the nervous system
- ▶ Diseases of the eye and adnexa
- ▶ Diseases of the ear and mastoid process
- ▶ Diseases of the circulatory system
- ▶ Diseases of the respiratory system
- ▶ Diseases of the digestive system
- ▶ Diseases of the skin
- ▶ Diseases of the musculoskeletal system and connective tissue
- ▶ Diseases of the genitourinary system
- ▶ Pregnancy, childbirth and the puerperium
- ▶ Certain conditions originating in the perinatal and neonatal period
- ▶ Developmental anomalies
- ▶ Symptoms, signs, clinical forms, and abnormal clinical and laboratory findings, not elsewhere classified
- ▶ Injury, poisoning and certain other

### Mapping Statements

**Neoplasms**

Neoplasms

=

II Neoplasms

Edit

Add New Mapping Statement

**Crosswalk ( ICD11 ⇒ ICD10 )**

**ICD11 Neoplasms**  
(<http://id.who.int/icd/entity/1630407678>)

is mapped to:

**ICD10 Neoplasms (II)**

See the mapping statement that is used to come up with the crosswalk →

**Analysis**

Check Consistency

ICD-10 Version:2010

- ▶ I Certain infectious and parasitic diseases
- ▶ II Neoplasms
- ▶ III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism
- ▶ IV Endocrine, nutritional and metabolic diseases
- ▶ IX Diseases of the circulatory system
- ▶ V Mental and behavioural disorders
- ▶ VI Diseases of the nervous system
- ▶ VII Diseases of the eye and adnexa
- ▶ VIII Diseases of the ear and mastoid process
- ▶ X Diseases of the respiratory system
- ▶ XI Diseases of the digestive system
- ▶ XII Diseases of the skin and subcutaneous tissue
- ▶ XIII Diseases of the musculoskeletal system and connective tissue
- ▶ XIV Diseases of the genitourinary system
- ▶ XIX Injury, poisoning and certain other consequences of external causes
- ▶ XV Pregnancy, childbirth and the puerperium
- ▶ XVI Certain conditions originating in the perinatal period
- ▶ XVII Congenital malformations, deformations and chromosomal abnormalities
- ▶ XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified

Chronic myelomonocytic leukaemia ↗



C93.1 Chronic myelomonocytic leukaemia ↗



Edit

Anaemias ↗



D64 Other anaemias ↗



D64.8 Other specified anaemias ↗



D64.9 Anaemia, unspecified ↗



Edit

Disorders of skin colour ↗



L81.8 Other specified disorders of pigmentation ↗

superclass: : icd10 class(es) are narrower than than the icd11 class(es)

Edit

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Organization

## STABILITY ANALYSIS





# Stability Analysis Objectives



- Enable a **seamless transition** between ICD-10 and ICD-11
  - national
  - international levels
- CrossCutting TAGs **review** and confirm **continuity** between ICD-10 and ICD-11
- Represent knowledge gained from **national clinical modifications** in the revised ICD.



## PROPOSAL MECHANISM



# Proposal Types

- Add Entity
- Delete Entity
- Edit Content Proposal
  - Propose changes in Title or Definition
- Delete Content Proposal
  - Propose deleting any property value such as synonym, body site, etc.
- Add Content Proposal
  - Propose Adding any property value such as synonym, body site, etc.
- Complex Hierarchical Changes

Grouped as  
Content Enhancement  
Proposal

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## Browsing - Creating Proposals

The screenshot displays the 'Proposals' section of the WHO ICD-11 GMDS 2014 web application. The interface is organized into several key areas:

- Search and Navigation:** A search bar is located at the top left, and navigation tabs for 'Browse', 'Admin', and 'Info' are at the top right. The user is signed in as 'Can Celik'.
- Filter and Navigation:** A filter dropdown is set to 'Foundation'. A left-hand navigation menu shows a hierarchical tree structure under 'Proposals Home', with 'Infections due to Vibrio cholera' selected.
- Proposal List:** The main content area displays a 'Proposal List' for the selected entity. It includes two proposals:
  - Content Enhancement Proposal:** Changes: Title. 2013-Mar-28 - 16:09. Edit
  - Add New Entity Proposal:** test 2013-Apr-17 - 08:46. Edit
- Create a New Proposal:** A sidebar on the right offers five options for creating new proposals:
  - Content enhancement proposal
  - Propose adding a new entity (as a child of the current)
  - Propose deleting the current entity
  - Propose complex hierarchical changes

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Content Enhancement Proposal

ICD11 Beta Draft

Signed in as: Can Celik | Profile | Log Out

### Proposals

Search  [ Advanced Search ]

therapeutic injection

- Complications of procedures, not elsewhere classified
- Complications of cardiac and vascular prosthetic devices, implants and grafts
- Complications of genitourinary prosthetic devices, implants and grafts
- Complications of internal orthopaedic prosthetic devices, implants and grafts
- Complications of other internal prosthetic devices, implants and grafts
- Failure and rejection of transplanted organs and tissues
- Complications peculiar to reattachment and amputation
- Other complications of surgical and medical care, not elsewhere classified
  - Infection following immunization**
  - Other complications following immunization, not elsewhere classified
  - Shock due to anaesthesia
  - Malignant hyperthermia due to anaesthesia
  - Failed or difficult intubation
  - Other complications of anaesthesia
  - Anaphylactic shock due to adverse effect of correct drug or medicament properly administered
  - Unspecified adverse effect of drug or medicament
  - Other specified complications of surgical and medical care, not elsewhere classified
  - Complication of surgical and medical care, unspecified

back to this entity's proposal list

Saved Save Submit

### Content Enhancement Proposal

#### Infection following immunization

Title

Infection following immunization

Definition

I'm suggestion a new definition

Synonym

immunization; infection	Propose Removal
infection following immunisation	Propose Removal
infection; immunization or vaccination	Propose Removal
<del>infection; postvaccinal</del>	Delete Removal Proposal
vaccination infection	Propose Removal
new synonym	Delete New Item Proposal
<input type="text"/>	Propose a new Synonym

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Organization

# REVIEW PROCESS



# Review Process

---

- **The 'content'**
  - Definitions
  - Content model parameters
- **The structure** - of the linearization (s)
  - Mortality
  - Morbidity
  - Primary Care
- **The reviewers:**
  - Scientific peers
  - Routed to vertical TAG, Horizontal Tag –
  - Arbitration by RSG if necessary



---

## FIELD TRIALS



# Field Trial Studies

---

1. Core Studies
  1. Basic Questions – consistency, errors
  2. Reliability & Feasibility
  3. Bridge Coding
2. Additional Studies



## ICD11 Field Trials

---

- Fitness of ICD-11 for multiple usecases
  - Ease of use
  - Renders useful information
- Comparability between ICD-10 and ICD-11
- Reliability - Consistency
  - identify improvement paths, and reduce errors



# Field Trial Platform

ICD-FIT v1.0 Settings Logout

HOME

**Test Who Coordinator**

Unique Participant Number: 123,45,56,789  
Language:   
ICD-11 version: xxx  
ICD-Fit group: WHO coordinator

Manage cases

Insert new case

Field Trial Centres (FTC)

Dashboard

Elaborated for WHO under contract: WHO Registration: 2013/391419d-0, Purchase Order: 200922646, Reg. File: SPHQ13-APW-4554

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# ICD11 beta



**ICD11 Beta** Signed in as: Robert Jakob | Profile | Log Out  
May 24 - 11:02 UTC

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▼ ICD11 Beta

- ▶ Certain infectious and parasitic diseases
- ▶ Neoplasms
- ▶ Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism
- ▶ Endocrine, nutritional and metabolic diseases
- ▶ Mental and behavioural disorders
- ▶ Diseases of the nervous system
- ▶ Diseases of the eye and adnexa
- ▶ Diseases of the ear and mastoid process
- ▶ Diseases of the circulatory system
- ▶ Diseases of the respiratory system
- ▶ Diseases of the digestive system
- ▶ Diseases of the skin
- ▶ Diseases of the musculoskeletal system and connective tissue
- ▶ Diseases of the genitourinary system
- ▶ Pregnancy, childbirth and the puerperium
- ▶ Certain conditions originating in the perinatal period
- ▶ Developmental anomalies
- ▶ Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified
- ▶ Injury, poisoning and certain other consequences of external causes

### ICD-11 Beta Draft

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#### Caveats

ICD-11 Beta draft is:

- **NOT FINAL**
- updated on a daily basis
- It is **not approved** by WHO
- **NOT TO BE USED** for CODING except for agreed FIELD TRIALS

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| 02 Neoplasms                                                    | 18 Pregnancy, childbirth and the puerperium                                                                 |
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| 06 Conditions related to sexual health                          | 22 Injury, poisoning and certain other consequences of external causes                                      |
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| 09 Diseases of the nervous system                               | 25 Codes for special purposes                                                                               |
| 10 Diseases of the eye and adnexa                               | 26 Traditional Medicine conditions - Module I (Note: This is a provisional title for ICD-11 Beta Phase)     |
| 11 Diseases of the ear and mastoid process                      |                                                                                                             |
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| 16 Diseases of the musculoskeletal system and connective tissue |                                                                                                             |



## ICD-11: 2017 WHA

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