



ICD-11 A User Guide

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Module 1: Introduction to ICD-11

Objectives

- To understand why ICD-11 has been developed and its uses
- To develop an understanding of the potential benefits of using ICD-11
- To develop a basic understanding of ICD-11 architecture and key differences between ICD-11 and ICD-10
- To understand stem codes and extension codes

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WHO and ICD

• Let's first take a look at the WHO website and ICD-11

- <u>https://www.youtube.com/watch?v=tZFcoYfnwiM&feature=youtu</u>
 <u>.be</u>
- http://www.who.int/classifications/icd/revision/en/

Uses and Potential Benefits of ICD-11:



- More comprehensive for use in broader clinical settings, e.g. primary care (responding to multiple user needs)
- Reflect current medical terminology and information needs (up-to-date scientific knowledge)
- ☑ Greater international comparability for morbidity
- ☑ Linkages with other classifications/terminologies:
 - International Classifications of Disease for Oncology (ICD-O)
 - International Classification of Functioning and Disability (ICF)
 - Gene Ontology (GO)
 - SNOMED-CT

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Development to date

- Revision process occurred on an internet-based platform for easier discussion and review
- Translatable into multiple languages
- International collaboration on content
 - Disease specific Topic Advisory Groups (TAGs)
 - Horizontal TAG groups- big picture mortality, morbidity, informatics, quality & safety, functioning





Reference Guide

The Reference Guide is an important resource document that provides detail on the:

- Context of ICD-11 within the Family of International Classifications.
- Components of ICD-11.
- Content of ICD-11, including the new chapters.
- Uses of ICD-11.
- Differences between ICD-10 and ICD-11.
- ICD-11 for Mortality & Morbidity Statistics (MMS).
- Coding process for ICD-11 MMS, including chapter by chapter coding guidelines.
- Comparison of changes to coding guidelines for mortality and morbidity.
- Overview of essential mortality and morbidity coding guidelines for clinical coding and field testing; including a definition for 'main diagnosis'.





ICD-11: What's new



Stem codes and extension codes Pre and Post coordination Cluster coding Sanctioning rules Multiple parenting Tabular lists

Updated content and new chapters:

Disorders of the immune system Dis. Blood & blood forming organs Conditions related to sexual health Sleep-wake disorders Traditional medicine Extension codes







The Foundation

- A multidimensional collection of all ICD entities
 - Diseases, disorders, injuries, external cause codes, signs, and symptoms
- Subsets of the foundation can be created these are known as Tabular Lists
- Instructions (sanctioning rules) on how to combine certain codes in a Tabular List to achieve more detail in coding





Tabular Lists

- Subset of the Foundation
 - Like Volume 1 of ICD-10 (Tabular)
 - Multiple Tabular lists possible for multiple settings Examples:
 - ICD-11 MMS (mortality and morbidity statistics)*
 - Used for coding illness and/or cause of death for international comparison; like previous versions of ICD
 - Primary Care Tabular Lists (Primary Care Low Resource Settings (PCL) and Primary Care Intermediate Resource Setting (PCM))
 - Verbal Autopsy (VA)
 - Simple Mortality List (SMoL)
 - Specialty Tabular Lists (i.e. Dermatology, Oncology, Mental Health)



ICD-11 MMS

• 27 chapters

• Very similar to ICD-10 for the most part in overall structure

- New chapters:
 - Conditions related to sexual health
 - Sleep-wake disordersTraditional medicine

 - Extension codes





Code Structure

- An alphanumeric code with a letter in the second position and number in the third character position to differentiate from the codes of ICD-10.
- Alphanumeric codes cover the range from 1A00.00 to ZZ9Z.ZZ.
- Codes starting with an 'X' indicate an extension code
 - (more on extension codes later in the presentation)
- The letters 'O' and 'I' have been omitted to prevent confusion with the numbers 'O' and '1'.

Examples: GB60.0 Acute kidney failure, stage 1 3A71.Z Anaemia of chronic disease, unspecified



Definitions in ICD-11

Each entity in the classification will now include a (short) definition.

With all entities having a definition, coders everywhere can be consistent with the common understanding of a concept; thus promoting the accuracy and reliability of coded information 'worldwide'.





Types of Codes in ICD-11

ICD-11 has 2 general types of codes:

- 1. Stem codes
- 2. Extension codes

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Stem Codes

Stem codes are for clinical entities in a tabular list that can be assigned alone.







Extension Codes

Extension codes allow the user to add more detail to the entity (stem code) that is chosen.

An extension code can only be used with a stem code as its prefix

(i.e. cannot be assigned alone).







Extension Codes

The Extension Codes chapter (X) uses 2 main types of extensions codes to enhance coding possibilities.

• Type 1 refine the level of detail of a stem code

Examples:

- severity such as mild/moderate/severe,
- aetiology such as infectious agents,
- specific anatomical detail, or
- temporality such as acute or chronic.
- Type 2 identify the different uses of an ICD stem code

Examples:

• main condition, present on admission, or certainty of diagnosis such as provisional diagnosis).

Pre and Post-Coordination

Pre-Coordination

Pre-coordination refers to a stem code that has all pertinent information in a pre-combined fashion

Example: squamous cell carcinoma of bronchus and lung

 2C25 Malignant neoplasms of bronchus or 			
lung			
2C25.0 Adenocarcinoma of bronchus or			
lung			
2C25.1 Small cell carcinoma of bronchus or			
lung			
2C25.2 Squamous cell carcinoma of			
bronchus or lung			
2C25.3 Large cell carcinoma of bronchus or			
lung			

Post-Coordination

Post-coordination refers to using a stem code and an extension code(s) or a stem code and further stem code(s) to achieve additional detail

Example: squamous cell carcinoma of <u>left</u> bronchus and lung

X Extension	n Codes		
Severity	Scale Value	•	
Tempor	ality		
Aetiolog	ах		
Topolog	gy Scale Valu	.e	
Relat	ional		
Distri	ibution		
Later	ality		
XK	(9J	Bilate	ral
XK	(8G	Left	
XK	(9K	Right	
XK	(70	Unilat	teral,
ur	nspecified		
XK	(6G	Unsp	ecified
lat	terality		



Post-coordination

Some users and settings are interested in reporting more detail than that which is included in a single stem code.

This additional detail can be captured using **post coordination** and **cluster coding** (a string of codes).

Stem

Stem / Stem

Stem & Extension

(or combinations of above)

Stem & Extension / Stem & Extension & Extension

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Cluster Coding

Stem + Stem (joined with /) 5A10/GB61.5

Post-coordination (?			
5A10 Type 1 diabetes mellitus			Code: 5A10 / GB61.5
Has manifestation	GB61.5 Chronic kidney disease, stage 5 🛛 😣	Search results Has manifestation	
	Add detail to Chronic kidney disease, stage 5 Has causing condition (code also) Search	GB61.0 Chronic kidney disease, stage 1 GB61.1 Chronic kidney disease, stage 2 GB61.2 Chronic kidney disease, stage 3a GB61.3 Chronic kidney disease, stage 3b GB61.4 Chronic kidney disease, stage 4 GB61.5 Chronic kidney, disease, stage 5 GB61.Z Chronic kidney disease, stage unspecifiec	
Add detail to Type 1 diabete	s mellitus	<	
Has manifestation (use addition	onal code, if desired)		
Search chronic kidney disease		یٹ 9	

Cluster Coding

Stem + Extension (joined with &) CA23.31&XS25

Post-coordination ?				
CA23.31 Unspecified Has severity	l asthma with status asthmaticus XS25 Severe 🛛 😣	Code: CA23.31&XS25		
Add detail to Unspecified asthma with status asthmaticus Has severity (use additional code, if desired)				
XS5W XS0T	Mild Moderate			
XS25	Severe			



Cluster Coding

Mixed (may use both & and /) 5A10/GB61.5&XY6M

Post-coordination ?	r.		Code: 5A10 (CR61)
Has manifestation	GB61.5 Chronic kidney disease, stage 5 Add detail to Chronic kidney disease, stage ! Has causing condition (code also) Search	Search results Has manifestation X 5 GB61.0 Chronic kidney disease, stage 1 ^ 6 GB61.1 Chronic kidney disease, stage 2 ^ 6 GB61.2 Chronic kidney disease, stage 3 ^ 6 GB61.3 Chronic kidney disease, stage 3 ^ 6 GB61.4 Chronic kidney disease, stage 4 ^ 6 GB61.5 Chronic kidney disease, stage 5 ^	Code: 5A107 GB61.
Add detail to Type 1 diabetes mellitus Has manifestation (<i>use additional code, if desired</i>) Search chronic kidney disease		GB61.Z Chronic kidney disease, stage unspecified XY6M Present on admission Parent	-
		Diagnosis timing All Index Terms • Present on admission	





Comparing ICD-10-CA to ICD-11

• Patient with CA of UOQ of L breast

ICD-10-CA	ICD-11
C50.41 Malignant neoplasm of upper-outer quadrant of left breast	2C6Z Malignant neoplasms of breast, unspecified (<i>stem code</i>) XK8G Left (<i>extension code</i>) XA2Q54 Upper outer quadrant of breast (<i>extension code</i>)
	<i>String or Cluster:</i> 2C6Z&XK8G&XA2Q54



Comparing ICD-10-CA to ICD-11

• Patient with Type 1 diabetes mellitus with diabetic retinopathy:

	ICD-10-CA	ICD-11
E10.30†	Type 1 diabetes with background retinopathy	5A10 Type 1 diabetes mellitus (<i>stem code</i>)
H36.0*	Diabetic retinopathy	9B71.0Z Diabetic retinopathy (<i>stem code</i>)
		String or Cluster: 5A10/9B71.0Z = Type 1 DM with diabetic retinopathy, unspecified

Retired Conventions

- Square brackets []
- Colon :
- Brace { }
- And/or in code titles; in ICD-11 its one or the other not 'both'
- Dot point/dash to indicate need for extra character (._).

Current conventions

The following also exist in ICD-11 and have the same meaning as they do currently:

- Inclusions
- Exclusions
- 'Code also' (mandatory) or 'Use additional code, if desired' (optional)
- NEC and NOS
- Residual categories ('other' and 'unspecified')
- 'Due to' (causal relationship) or 'with' (no causal relationship)
- And
- Or

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Other information

- Terms will be listed in their singular form
- Apostrophes have been removed Example: 'Hodgkin lymphoma' (instead of 'Hodgkin's lymphoma')
- Entities are described using natural language Example: 'myocardial infarction' (instead of 'infarction, myocardial')
- Abbreviations use upper case letters, followed by the complete title in full.

Example: 'MI – myocardial infarction'

 Parentheses enclose the code to which an exclusion term refers. Example: 9A01.3 Infectious blepharitis Exclusions: blepharoconjunctivitis (9A60.4)



Sanctioning Rules

Sanctioning rules are a set of instructions to help coders visualize the permitted code combinations when using a Tabular List.

Sanctioning tables containing these rules are expected to be **embedded** in ICD-11. They tell you what is:

- required
- allowed
- optional
- not applicable

Index

As the ICD-11 is envisaged to be a predominantly electronic classification, the use of the coding tool provides an electronic index through which to locate the appropriate codes.

ICD-11 Coding Tool			Help
appendicitis Guessing the word being typed	×]	Feedback
Word list sort: Relatedness/repetition ~	Destination Entities	sort: Matching score 🗸	Chapter distribution / filter
appendicitis	DB10.2 Appendicitis, unspecified I ⊂ C DB10.1 Chronic appendicitis C C DB10.02 Acute appendicitis, unspecified C C DB10.7 Other specified appendicitis C C DB10.01 Acute appendicitis with localised peritonitis C DB10.02 Acute appendicitis without localised or general DB10.00 Acute appendicitis with generalised peritonitis	ී ised peritonitis C ≣ C	* <mark>⊻ <u>Digestive system</u> ∕</mark>

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Quick Quiz

What is a stem code?
What is an extension code?
What is meant by post-coordination?
What is a cluster in ICD-11?
What is a sanctioning rule?
Name 2 new chapters in ICD-11



Module 2: ICD-11 Tooling Environment

Learning objectives

- To develop an understanding of the ICD-11 tooling environment
- To develop skill sets to master the use of the tools





Overview of ICD-11 Tools

• ICD-11 for Mortality and Morbidity Statistics (Draft for quality assurance)

• ICD-11 Beta Draft





Using the ICD-11 Beta Draft Tool: Searching for codes

Browser searching has three options:

- Browsing via hierarchy (Tabular Browsing)
- Quick Search
- Advanced Search
- ICD-11 Training videos The Browser

Browsing for Codes

Open the coding tool and search for the following:

- Anterior STEMI
- Acute kidney injury (AKI)

Using the Coding Tool

- ICD-11 coding tool. ICD-11 Coding Tool
- Can search for all ICD-11 terms.
- The coding tool has a link to the ICD-11 Browser

Open the coding tool and try the following : Congestive heart failure

Summary – Questions?



How can you tell if you can post coordinate? What if the option to post coordinate is not there?