

ICD-11: Prepare for Change

A WEBINAR PRESENTED ON NOVEMBER 16, 2023

Presented By



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Learning Outcomes

At the completion of this educational activity, the learner will be able to:

- Describe the who, what, where, why, and how of the latest update to the International Classification of Diseases
- Distinguish code mechanics, code types, and clinical workflow impacts across the patient care continuum
- Develop focused education and awareness strategies for your organization
- Identify critical concerns and risks integrating the new coding classification
- Improve your organization's readiness for the conversion to ICD-11

Agenda

- ICD-11 background
 - What is ICD-11, who created it, and why?
 - How does it differ from ICD-10?
 - Where and when is it being implemented?
- ICD-11 fundamentals
 - Code mechanics
 - Structural changes
 - chapters, categories, types
- ICD-11 integration
 - Impacts and risks
 - Educational resources
 - Developing an education plan
 - Readiness
 - Establishing awareness strategies
 - Improving organizational readiness for conversion
- Live Q&A

NC72.5&XK8G&XJ1Z6&XJ7YM&PA60&XE3LV

What???

It may not seem like it, but the transition to ICD-11 is an opportunity for you to improve the way systems function, how staff communicate and interact, and ultimately how well health professionals provide care to patients in your hospital.

Coding Examples: Fracture of femur

ICD-10-CM

ICD_10 Summary

Diagnoses	
Code	Description
S72352B	Displaced comminuted fracture of shaft of left femur, initial encounter for open fracture type I or II
V00321A	Fall from snow-skis, initial encounter
Y9323	Activity, snow (alpine) (downhill) skiing, snowboarding, sledding, tobogganing and snow tubing
Y92838	Other recreation area as the place of occurrence of the external cause
Y998	Other external cause status



ICD-11

NC72.5 Fracture of shaft of femur

Foundation URI: <http://id.who.int/icd/entity/1662130545>

Code: NC72.5 &XK8G &XJ1Z6 &XJ7YM PA60 &XE3LV

Selected term

comminuted fracture of shaft of femur

Exclusions from above levels [Show all \[10\]](#) ▾

Postcoordination

Laterality	XK8G Left	✗
Fracture subtype	XJ1Z6 Comminuted fracture	✗
Fracture open or closed	XJ7YM Open fracture	✗
Associated with	PA60&XE3LV Unintentional fall involving ice and snow	✗

ICD-11 Package & Components

- ICD-11 is a “Digital Format” and ready to integrate:
 - WHO provided a Coding Tool, Browser and API’s
 - ‘Google’ like diagnostic phrase vs. word/code search
 - 55K chapter and index entries, 120K clinical terms
 - Potential ability to code millions of terms, easier to extend
 - 900 proposals were processed based on input from early adopters, translators, scientists, clinicians, and partners.

Who???

- EXACTLY!!! WHO – World Health Organization
- 64 countries are in different stages of ICD-11 implementation. Multiple languages now available: Arabic, Chinese, English, French, Spanish, Russian, and Turkish. 23 more languages are underway.
- Goal: “*one international classification*” system and extend ICD-11, so there will be no ICD-12

Why???

- ICD-10 is nearly 30 years old and doesn't provide enough detail for the clinical advances, procedures and services now available to patients
- ICD-11 is more flexible and detailed, with the capability to readily expand and capture new procedures and technologies. Improved detail will be available for clinical quality improvement, public reporting, and payment.

Why Else?

Current implemented uses:

- Causes of death
- Primary care
- Cancer registration
- Patient safety
- Dermatology
- Pain documentation
- Allergology
- Reimbursement
- Clinical documentation
- Data dictionaries for WHO guidelines
- Digital documentation of COVID-19 vax status & testing
- Monkeypox

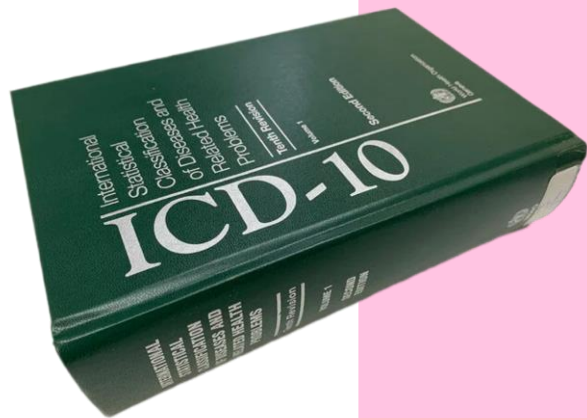
Rare diseases coding

Support for perinatal & maternal coding

Grade and stage coding for cancers

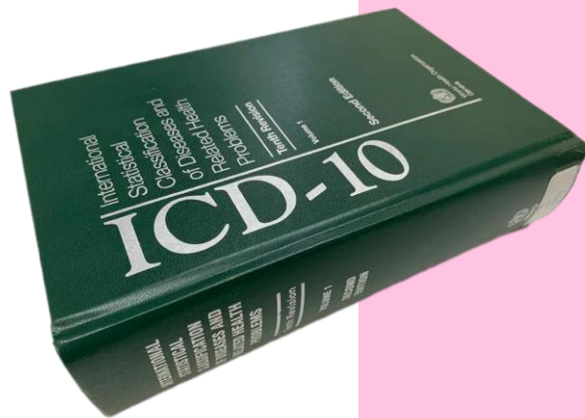
Clinical descriptions & diagnostic requirements for mental health

How???



- Limited spelling options (synonyms)
- No abbreviations

How???



- Limited spelling options (synonyms)
- No abbreviations

- Includes synonyms and flexible spelling
- Updated online
- Includes abbreviations

ICD-11 Electronic Coding Tools

Dynamic phrase search

ICD-11 Coding Tool Mortality and Morbidity Statistics (MMS) 2023-01

fracture left femur articular

Help

Guessing the word being typed...

Word list

sort :
 articular

Destination Entities

NC72.66&x... **Fracture** of lower end of **femur** extending into joint, complete **articular** [Left]

Destination Entities

ICD-11 Coding Tool Mortality and Morbidity Statistics (MMS) 2023-01

fracture left femur

Guessing the word being typed...

Word list
 sort :
 femur

Destination Entities

- NC72.Z&xk8g **Fracture of femur**, unspecified [Left] **Fracture of femur** [Left] *
- NC72.0&xk8g **Fracture** of head of **femur** [Left]
- NC72.2Z&x... **Fracture** of neck of **femur**, unspecified **Fracture** of neck of **femur** [Left]
- NC72.3Z&x... **Fracture** of unspecified trochanteric [Left] femoral trochanteric **fracture** [Left]
- NC72.31&x... **Pertrochanteric fracture** of **femur** [Left]
- NC72.5&xk8g **Fracture** of shaft of **femur** [Left]
- NC72.7&xk8g Multiple **fractures** of **femur** [Left]
- NC72.Y&xk8g Other specified **fracture** of **femur** [Left]
- NC72.1&xk8g **Fracture** of upper epiphysis of **femur** [Left]
- NC72.22&x... **Fracture** of base of neck of **femur** [Left]

Hierarchy View

NC72.62 Fracture of lower end of femur not extending into joint, complex

NC72.63 Fracture of lower end of femur extending into joint, lateral condyle

NC72.64 Fracture of lower end of femur extending into joint, medial condyle

NC72.65 Fracture of lower end of femur extending into joint, frontal

NC72.66 Fracture of lower end of femur extending into joint, complete articular

NC72.6Y Other specified fracture of lower end of femur

NC72.6Z Fracture of lower end of femur, unspecified

NC72.7 Multiple fractures of femur

NC72.8 Fractures of other parts of femur

NC72.Y Other specified fracture of femur

NC72.Z Fracture of femur, unspecified

NC73 Dislocation or strain

NC72.66 Fracture of lower end of femur extending into joint, complete articular

Foundation URI: <http://id.who.int/icd/entity/2048192769>

Code: NC72.66&XK8G

Exclusions from above levels [Show all \[10\]](#)

Postcoordination

Laterality XK8G Left

Laterality (use additional code, if desired.)

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

Fracture subtype (use additional code, if desired.)

search in axis: Fracture subtype

- XJ36W Avulsion fracture
- XJ2EL Bucket handle or corner fracture
- XJ76E Buckle fracture
- XJ7ZH Burst fracture
- XJ1Z6 Comminuted fracture
- XJ1PP Compound fracture
- XJ778 Compression fracture
- XJ9UB Depressed fracture
- XJ69V Dislocated fracture
- XJ8PQ Displaced fracture
- XJ0QE Elevated fracture
- XJ5N9 Fissured fracture
- XJ45W Greenstick fracture
- XJ7AT Impacted fracture

ICD-11 Coding Tool – Code Search

ICD-11 Coding Tool Mortality and Morbidity Statistics (MMS) 2021-05

upper respiratory infection

Code with children

Default sort

Exact match

Word list

infection

Destination Entities

CA07	Acute upper respiratory infections of multiple and unspecified sites
CA07.0	Acute upper respiratory infection, site unspecified upper respiratory infection NOS - *
CA07.1	Acute upper respiratory infections of multiple sites
CA45	Respiratory infections, not elsewhere classified respiratory infections not specified as acute, chronic, lower, or upper -
1E30	Influenza due to identified seasonal influenza virus Influenzal acute upper respiratory infection other influenza virus identifie
1E31/CA07	Acute upper respiratory infection zoonotic or pandemic influenza virus
1E32	Influenza, virus not identified Influenzal acute upper respiratory infection unspecified or specific virus n

ICD-11 MMS Coding Tool Destination Entities Results Using Defi

ICD-11 Coding Tool Mortality and Morbidity Statistics (MMS) 2021-05

upper respiratory infection

Optional sort

Word list

infection

Destination Entities

1E30	Influenza due to identified seasonal influenza virus Influenzal acute upper respiratory infection other influenza virus identified
1E31/CA07	Acute upper respiratory infection zoonotic or pandemic influenza virus identified
1E32	Influenza, virus not identified Influenzal acute upper respiratory infection unspecified or specific virus not identified
CA07	Acute upper respiratory infections of multiple and unspecified sites
CA07.0	Acute upper respiratory infection, site unspecified upper respiratory infection NOS - *
CA07.1	Acute upper respiratory infections of multiple sites
CA45	Respiratory infections, not elsewhere classified respiratory infections not specified as acute, chronic, lower, or upper -

ICD-11 MMS Coding Tool Destination Entities Results Using Optional Sort

When???? Global Transition Timelines

1-3 YEARS:

Colombia
India
Italy
Kuwait

4-7 YEARS:

Australia, Brazil, Canada,
Germany, Saudi Arabia,
Singapore, Switzerland, United
Kingdom

7+ YEARS:

Belgium, Chile, Greece, Mexico,
Portugal, Qatar, Spain, Taiwan,
UAE, United States

What About the United States?



The U.S only implemented ICD-10-CM for use about 7 years ago. WHO's ICD-10 is nearly 30 years old.



The National Committee on Vital and Health Statistics (NCVHS) established an ICD-11 Workgroup to develop advice and recommendations to HHS regarding adoption of ICD-11. Published Request for Information (RFI) and held an initial meeting 8/3. We expect a subsequent RFI.



While an implementation date for ICD-11 in the U.S is still unknown, operations, coordination, and education are needed for smooth transition. This is the time to be proactive in our anticipation of a full implementation of ICD-11.

ICD-9, ICD-10, ICD-11 Mechanics

It's All In the Numbers

ICD-10-CM: Diagnosis coding

Used for inpatient **and** outpatient

- ICD-9-CM ~13,000
- ICD-10-CM ~74,000
- ICD-11
 - 55,000 chapter + index entries
 - 120,000 clinical terms
 - Ability to code millions of terms, easier to extend

ICD-10-PCS: Procedure coding

Used for inpatient only; CPT® codes for outpatient

- ICD-9-CM ~3,800
- ICD-10-PCS ~78,000
- ICD-11 ?

ICD-11 will be a transition from ICD-10-CM, Procedure coding not in scope at this time

Structure Changes

ICD-10-CM	ICD-11
1 st character is alphanumeric (all letters except U), 2 nd and 3 rd numeric	Alpha numeric (1A00.00 to ZZ9Z.ZZ), always has a letter in the 2 nd position to distinguish from ICD-10
3 to 7 characters, decimal after 3 rd character	Stem codes: 4 to 6 characters, starting with numbers or letters except X Extension codes: start with X, cannot be used alone
No special characters	Clustering (Post-Coordination) & and /
Not case sensitive	Not case sensitive - No l,l (L,i) and No 0,O (Zero, o)

Chapter Structure: Comparing ICD-10-CM to ICD-11

ICD-10 Version:2019

Search [Adv

- ▼ ICD-10 Version:2019
 - ▶ 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
 - ▶ 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
 - ▶ IX Diseases of the circulatory system
 - ▶ 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
 - ▶ 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
 - ▶ XIX Injury, poisoning and certain other consequences of external causes
 - ▶ XX External causes of morbidity and mortality
 - ▶ XXI Factors influencing health status and contact with health services
 - ▶ XXII Codes for special purposes

ICD-11 for Mortality and Morbidity Statistics

Search [Advanced Search

- ▼ 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 external causes
 - ▶ 23 External causes of morbidity or mortality
 - ▶ 24 Factors influencing health status or contact with health services
 - ▶ 25 Codes for special purposes
 - ▶ 26 Supplementary Chapter Traditional Medicine Conditions - Module I
 - ▶ V Supplementary section for functioning assessment
 - ▶ X Extension Codes

ICD-11
Version for
Release

- The
- Upd

ICD-11 Coding Scheme

The chapter numbering

- Now Arabic numbers
- Not Roman numerals
- First character of the code always equals chapter number (1-Z)

The coding scheme for categories

- Now minimum 4 characters
- 2 levels of subcategories
- Disease location changes
 - Ex:
Cerebrovascular diseases moved from circulatory to the nervous system chapter

Coding scheme

- Always has a letter in the 2nd position to distinguish from ICD-10
- No I,I (L,i)
- No 0,O (Zero, o)

New chapters

- Diseases of blood and blood-forming organs
- Disorders of the immune system
- Conditions related to sexual health
- Sleep-wake disorders
- Extension codes
- Traditional medicine

Study of ICD-10-CM to ICD-11

- SOURCE: <https://academic.oup.com/jamia/article/28/11/2404/6349188>

For 943 frequently used ICD-10-CM codes, representing 60% of usage from each chapter, ICD-11 can achieve:

- 23.5% full representation without post-coordination
- 8.6% full representation with post-coordination (*can be increased to 35.2% by adding 9 extension codes*)
- 67.9% partial representation

Coding guidance review identified potential conflicts in 10% of codes, but mostly not affecting re-coding. Most of the conflicts resulted from differences in granularity and default coding assumptions between the ICD-11 and ICD-10-CM

Based on the General Equivalence Maps (published by CMS), only 24.3% of ICD-9-CM codes had exact matches in ICD-10-CM

Therefore, transition from ICD-10-CM to ICD-11 may not be more disruptive than transition from ICD-9-CM to ICD-10-CM

ICD-11 Code Types

ICD-11 Stem Codes

Stem codes are core diagnostic codes

- More detail can be added
- Always positioned first when clustering
- Start with number or letters, except X

Documentation of the clinical condition will be key when determining the correct stem code. For example, impingement syndrome has three possible stem codes:

- FA34.5 - Impingement syndrome of hip
- FB53.1 - Rotator cuff syndrome
- FB53.2 - Impingement syndrome of shoulder

<p>▼ Four-character stem code</p> <p>BA03 Hypertensive crisis</p>
<p>▼ Five-character stem code</p> <p>6D10.0 Mild personality disorder</p>
<p>▼ Six-character stem code</p> <p>DA94.00 Primary nonspecific ulceration of small intestine</p>

The screenshot shows the ICD-11 Coding Tool interface. At the top, it says 'ICD-11 Coding Tool' and 'Mortality and Morbidity Statistics (MMS) 2021-05'. There is a search bar containing 'impingement syndrome' with a clear button (X). Below the search bar, it says 'Guessing the word being typed...'. There are two columns: 'Word list' and 'Destination Entities'. The 'Word list' shows 'syndrome' with a sort dropdown set to 'Relatedness/repetition'. The 'Destination Entities' shows three results: 'FB53.1 Rotator cuff syndrome impingement syndrome *', 'FA34.5 Impingement syndrome of hip', and 'FB53.2 Impingement syndrome of shoulder'. Each result has a '[Details]' link. At the bottom, it says 'Possible Stem Codes for Impingement Syndrome'.

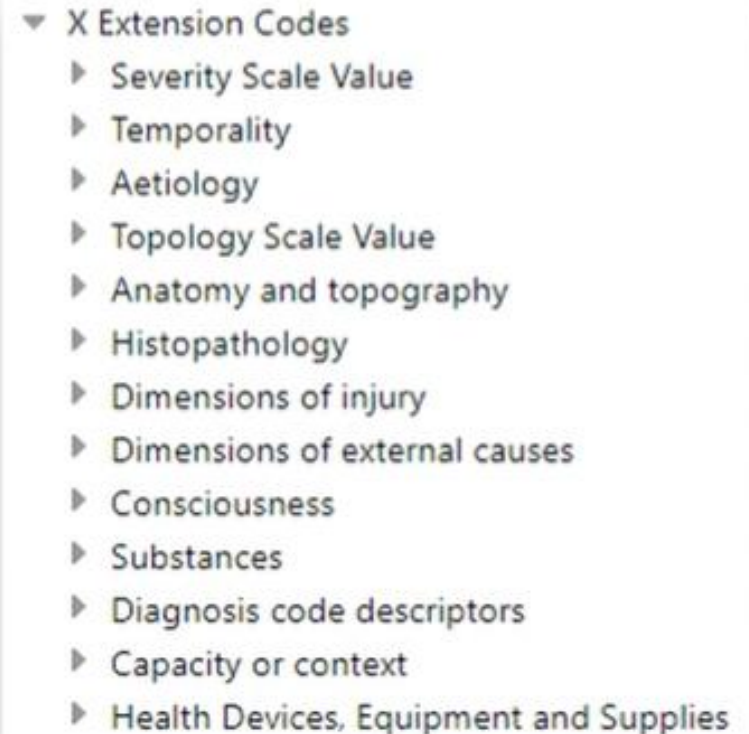
ICD-11 Extension Codes

Extension codes “extend” the meaning of a stem code by providing additional detail

- Start with the letter X
- Cannot be used alone for coding

Examples of extension codes include:

- Those providing additional information - laterality, severity, location, and substances
- Those used as descriptors - diagnosis timing such as present on admission, discharge diagnosis type such as main condition, and diagnosis certainty such as provisional dx

- 
- ▼ X Extension Codes
 - ▶ Severity Scale Value
 - ▶ Temporality
 - ▶ Aetiology
 - ▶ Topology Scale Value
 - ▶ Anatomy and topography
 - ▶ Histopathology
 - ▶ Dimensions of injury
 - ▶ Dimensions of external causes
 - ▶ Consciousness
 - ▶ Substances
 - ▶ Diagnosis code descriptors
 - ▶ Capacity or context
 - ▶ Health Devices, Equipment and Supplies

ICD-11 Cluster Coding, a.k.a POSTCOORDINATION

Cluster coding refers to a convention used (either / or &) to show more than one code is being used together to describe a documented clinical concept.

- stem code/stem code(s)
- stem code&extension code(s)

Example:

Diagnosis: Duodenal ulcer with acute hemorrhage

- **Cluster:** DA63/ME24.90&XA9780
 - **Condition** - DA63 Duodenal ulcer;
 - **Specific anatomy (use additional code, if desired)** - XA9780 Duodenum;
 - **Has manifestation (use additional code, if desired)** - ME24.90 Acute gastrointestinal bleeding, not elsewhere classified

Cluster Coding – Mandatory vs Optional

ICD-11 Coding Tool Mortality and Morbidity Statistics (MMS) 2020-09

Diabetic cataract

Guessing the word being typed...

Word list: cataract

Destination Entities: 9B10.21 Diabetic cataract *

Description: This refers to an unspecified group of metabolic diseases in which a person has high blood sugar, either because the pancreas does not produce enough insulin, or because cells do not respond to the insulin that is produced. This diagnosis is with diabetic cataract.

Coding Note: Always assign an additional code for diabetes mellitus.

Postcoordination: * Mandatory postcoordination: click here to open the browser

Filter: Matching score

- A red plus + means there is mandatory post-coordination
- A gray plus + means it is optional

If you enter more detail, the coding tool will present a ready-made post-coordination code

ICD-11 Coding Tool Mortality and Morbidity Statistics (MMS) 2023-01

diabetic cataract due to T2dm

Guessing the word being typed...

Word list: t2dm

Destination Entities: 9B10.21/5A11 Diabetic cataract [Type 2 diabetes mellitus]

Selected: 9B10.21/5A11

Diabetic cataract [T2DM - [Type 2 diabetes mellitus]]

Filter: Matching score

Cluster Coding Examples & Colors

The screenshot shows the ICD-11 browser interface for the code **FB53.2**. On the left, a tree view shows the hierarchy of codes. A black arrow points to the **FB53** level, labeled "Stem code combined with extension code". A red arrow points to **FB53.Y**, labeled "Extension code". A pink arrow points to **FB53.Z**. The main content area shows details for **FB53.2**, including its description, additional information, and matching terms. A box highlights the matching term **impingement syndrome** of shoulder region, with an arrow pointing to the extension code **XX9K** in the laterality field, also labeled "Extension code".

Black entities are typical codes associated with the parent above; has a **primary parent**

Gray entities are listed but not associated with the parent stem code path you are in; has a **secondary parent**

Red entities are residual such as **“Other”** and **“Unspecified”**

- This is not new to ICD-11

ICD-11 Unique Resource Identifiers (URI)

Coders don't need to know, won't see

Analogous to GPS coordinates 

A team is in St Augustine FL (29.9012°N, 81.3124°W), but in different home offices:

- 29°54'52.8"N 81°18'43.0"W
- 29°54'53.9"N 81°17'50.3"W
- 29°53'32.9"N 81°18'07.3"W

6C40: Disorders due to use of alcohol *Foundation URI: <http://id.who.int/icd/entity/1676588433>*

- 6C40.0 Episode of harmful use of alcohol *Foundation URI: <http://id.who.int/icd/entity/766814084>*
- 6C40.3 Alcohol intoxication *Foundation URI: <http://id.who.int/icd/entity/1339202943>*
- 6C40.5 Alcohol-induced delirium *Foundation URI: <http://id.who.int/icd/entity/1217486356>*

- ▽ Disorders due to substance use
 - ▽ 6C40 Disorders due to use of alcohol
 - 6C40.0 Episode of harmful use of alcohol
 - ▷ 6C40.1 Harmful pattern of use of alcohol
 - ▷ 6C40.2 Alcohol dependence
 - 6C40.3 Alcohol intoxication
 - ▷ 6C40.4 Alcohol withdrawal
 - 6C40.5 Alcohol-induced delirium
 - ▷ 6C40.6 Alcohol-induced psychotic disorder

ICD-11 Codes & The URI

- The URI points to a specific code (or entity) and location in the WHO Foundation
- It is permanent – version or language independent
- Not all URIs have an ICD-11 code (i.e., rare diseases); only the most important concepts have a code

The screenshot shows the WHO-FIC Foundation website interface. At the top, there is a search bar with 'alcoholism' entered and navigation tabs for Home, Linearizations, Proposals, and Info. Below the search bar, a left-hand navigation pane displays a tree structure of ICD-11 categories. The selected path is: Disorders due to substance use > 6C40 Disorders due to use of alcohol > 6C40.0 Episode of harmful use of alcohol. The main content area on the right features a hierarchical diagram with nodes representing different levels of the ICD-11 classification. The nodes are: WHO-FIC (top level), ICD Entity (second level), ICD Category (third level), Mental, behavioural or neurodevelopmental disorders (fourth level), Disorders due to substance use or addictive behaviours (fifth level), Disorders due to substance use (sixth level), and Disorders due to use of alcohol (seventh level). Below the 'Disorders due to use of alcohol' node, a list of specific ICD-11 codes is shown, including: Episode of harmful use of alcohol, Harmful pattern of use of alcohol, Alcohol dependence, Alcohol intoxication, Alcohol withdrawal, Alcohol-induced delirium, Alcohol-induced psychotic disorder, and Certain specified alcohol-induced mental or behavioural disorders.

Comparing the Foundation and Tabular Lists

The Foundation is a multi-dimensional collection of all ICD, ICF and ICHI entities. Entities can be diseases, disorders, injuries, external causes, signs and symptoms, functioning domains, or interventions.

The Foundation also has the necessary information to use the entities to build a tabular list, such as information on where and how a certain entity is represented in a tabular list, whether it becomes a grouping, a category with a stem code, or whether it is mentioned as an inclusion term in a particular category.

Different tabular lists can be built from the Foundation. By drawing on the same Foundation, a set of tabular lists that builds on the same hierarchical tree structure can be created – producing congruent tabular lists, that is, subsets of the Foundation for a specific use.

ICD–11 has multiple tabular lists with varying levels of detail which include:

- Mortality and Morbidity Statistics (MMS)
- Primary care low resources settings (PCL)
- Verbal Autopsy (VA)
- Startup Mortality List (SMoL)

The full name of such a tabular list will always include ‘ICD–11’, e.g., ICD–11 MMS.

ICD-11 Code Maintenance

WHO established ICD-11 content to be an open public platform, with ability to collaborate for future releases and revisions. Two of the stated goals of the ICD revision process were to:

- Establish a classification-terminology linkage from ICD-11 to the Systematized Nomenclature of Medicine Clinical Terms (SNOMED CT)
- Minimize the need for country-specific modifications by creating a structure within ICD-11 to accommodate such modifications

The WHO Family of International Classifications (WHO-FIC) Proposal Platform includes a Browser as part of the web-based software that is available to create or view new proposals.

WHO release schedules:

Proposals	Ongoing
Foundation	Daily
MMS and API	Annual

Every country has its own timing as to when updates are implemented. Whether or not this holds true under ICD-11 is yet to be determined. Countries need to decide if ICD-11 MMS is adopted as-is or a national modification will be needed.

ICD-11 Impacts & Risks

The Preauthorization Phone Call

On September 30, 2013: “I’m calling to pre-authorize the admission of Mr. Smith who has been diagnosed with Crohn’s disease, diagnosis code 555.0, Regional enteritis of the small intestine.”

On October 1, 2013: *“I’m calling to pre-authorize the admission of Mr. Smith who has been diagnosed with Crohn’s disease of the small intestine with abscess, diagnosis code K50.014.”*

On some future date: *“I’m calling to pre-authorize the admission of Mr. Smith who has been diagnosed with Crohn disease of duodenum with abscess and chronic visceral pain from persistent inflammation, diagnosis code DD70.1&XA6452&XA9780/MG30.42.”*

The Coding Workflow: Fracture of Femur

ICD-10 Summary

Diagnoses	
Code	Description
S72352B	Displaced comminuted fracture of shaft of left femur, initial encounter for open fracture type I or II
V00321A Y9323	Fall from snow-skis, initial encounter Activity, snow (alpine) (downhill) skiing, snowboarding, sledding, tobogganing and snow tubing
Y92838 Y998	Other recreation area as the place of occurrence of the external cause Other external cause status

NC72.5 Fracture of shaft of femur

Foundation URI: <http://id.who.int/icd/entity/1662130545>

Code: NC72.5&XK8G&XJ1Z6&XJ7YM PA60&XE3LV

Selected term

comminuted **fracture** of **shaft** of **femur**

Exclusions from above levels [Show all \[10\]](#) ▾

Postcoordination

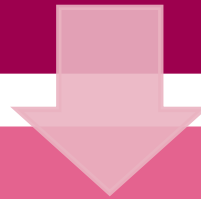
Laterality	XK8G Left	✘
Fracture subtype	XJ1Z6 Comminuted fracture	✘
Fracture open or closed	XJ7YM Open fracture	✘
Associated with	PA60&XE3LV Unintentional fall involving ice and snow	✘

The Coding Workflow: ICD-9, ICD-10, ICD-11

Diabetes mellitus, type II, with left diabetic cataract

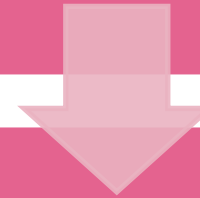
ICD-9 250.50 and 366.41

- **250.50** *Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled*
- **366.41** *Diabetic cataract*



ICD-10 E11.36

- **E11.36** *Type II diabetes mellitus with diabetic cataract*



ICD-11 9B10.21&XK8G/5A11

- **9B10.21** *Diabetic cataract*
- **XK8G** *Left*
- **5A11** *Type 2 diabetes mellitus*

The CDI workflow: Pneumonia Specificity – gram negative aspiration pneumonia

ICD-10:

- Codes to J15.6
- POA is reported with an indicator character:
 - Y Present on admission
 - N Not present on admission
 - U Known
 - W Clinically undetermined

ICD-11:

- Codes to CA40.0Y
- Mandatory post-coordination
- POA is reported on with an extension code:
 - XY6M Present on admission
 - XY69 Developed after admission
 - XY85 Uncertain timing of onset relative to admission

✔ Type or causative agent of pneumonia was properly documented.

Evidence Found

✔ Documentation of the type or causative organism of pneumonia

PROVIDER DISCHARGE Hospital course 06/09/2023 at 11:56 AM
by [REDACTED]
...lobes could be due to aspiration pneumonia given the patient's history. Endotracheal...

PROGRESS NOTE - HOSPITALISTS - Assessment/Plan 06/08/2023 at 07:06 AM
by [REDACTED]
...lobes could be due to aspiration pneumonia given the patient's history. Endotracheal...

PHYSICIAN SPECIALTY CONSULT Home Medications 06/06/2023 at 11:44 AM
by [REDACTED]
...pulmonary opacities greatest at the lower lung zones consistent with pneumonia / aspiration. CT chest: Large right-sided tension...

✔ Type or causative agent of pneumonia was properly documented.

Evidence Found

✔ Documentation of the type or causative organism of pneumonia

PROVIDER DISCHARGE Hospital course 06/09/2023 at 11:56 AM
by [REDACTED]
...lobes could be due to aspiration pneumonia given the patient's history. Endotracheal...

✔ Evidence of aspiration pneumonia

PROGRESS NOTE - HOSPITALISTS Current Medications: 06/08/2023 at 07:06 AM
by [REDACTED]
...Titration: 06/07/23 08:05 Dose: Infused Ampicillin Sodium / Sulbactam Sodium 3,000 mg / Sodium Chloride...

PROVIDER DISCHARGE Hospital course 06/09/2023 at 11:56 AM
by [REDACTED]
...following cardiac arrest. Patient was started on Unasyn on 06/05/2023. He was transitioned...

✔ Evidence of pneumonia - Radiology

CT CHEST/ABD/PELVIS W/O 71250 IMPRESSION: 06/07/2023 at 09:00 PM
by [REDACTED]
...effusion. Prominent posterior / dependent consolidation in both lungs favored mostly attributed to atelectasis...

CT CHEST/ABD/PELVIS W/O 71250 FINDINGS: 06/07/2023 at 09:00 PM
by [REDACTED]
...Trace left pleural effusion. Prominent consolidation in both lungs posteriorly / dependently involving the lower greater than upper lobes. There is involvement of the...

Show more (6)







✔ Evidence of Gram Negative Pneumonia

PROGRESS NOTE - CRITICAL CARE Code Status: 06/09/2023 at 11:40 AM
by [REDACTED]
...35 minutes Time spent included ventilator management and optimizing hemodynamics, performing brain...

Evidence Not Found

- ✘ Evidence of pneumonia - Fever
- ✘ Evidence of pneumonia - Chest pain

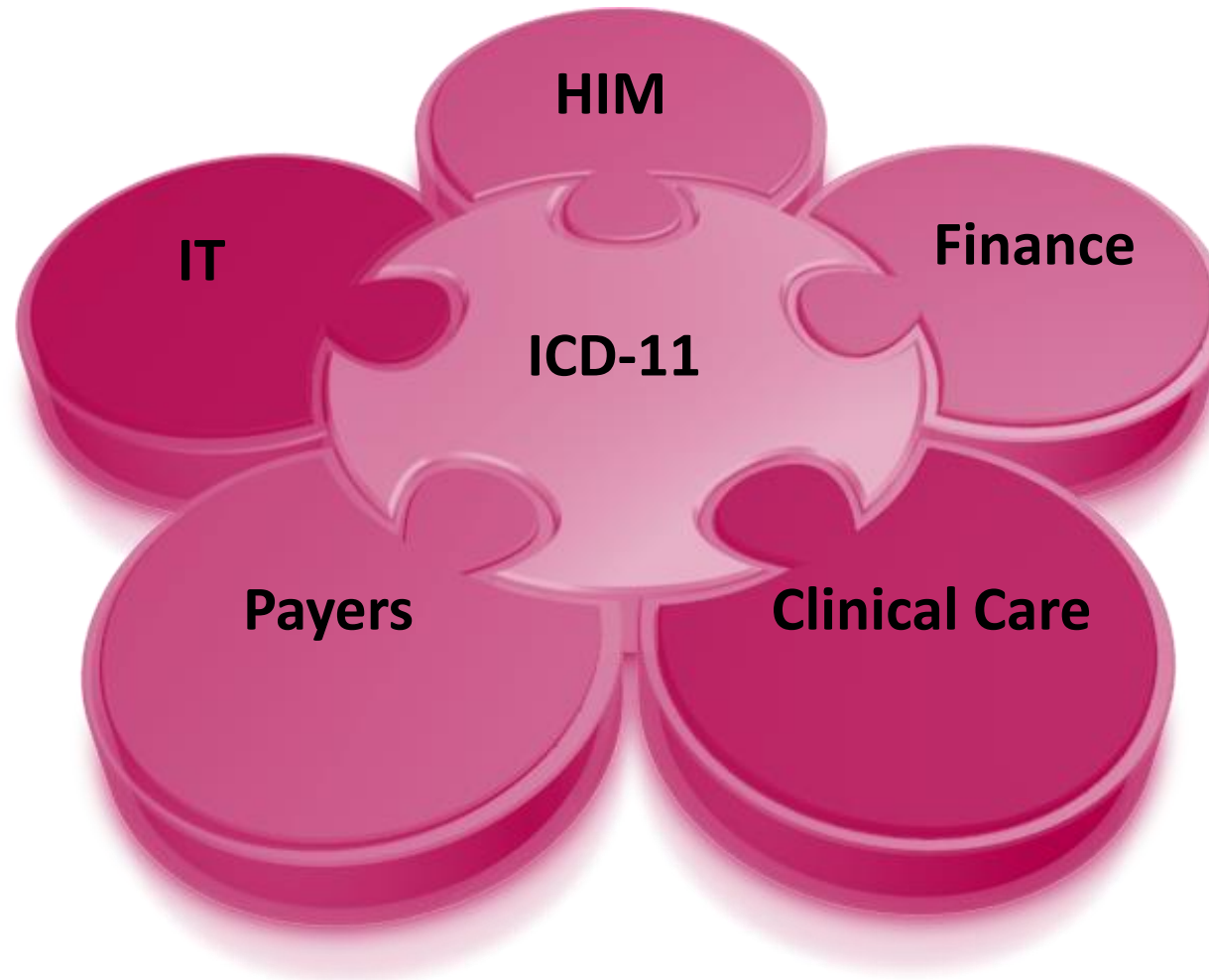
Other Workflows & Use Cases for ICD-11

-  Transaction/Billing - Fee 4 Service
-  Utilization management
-  Casemix/Performance management
-  Budgeting
-  Activity-based funding
-  Value-based care

Payer Cost Containment Strategy	Payer Tactic	Hospital Response
Prospective Payment	Inpatient and Outpatient PPS	<ul style="list-style-type: none"> - Improve Coding Accuracy - Control Costs - Track Payments
Pay for Performance	Adjust Payment Based on Quality Measures	<ul style="list-style-type: none"> - Improve Coding Accuracy - Improve Quality - Track Payments
Managed Care	<ul style="list-style-type: none"> Risk-adjusted <u>Capitated</u> Payment Case Management 	<ul style="list-style-type: none"> - Improve Coding Accuracy - Control Costs - Track Payments
Consumer Pressure	Public Dissemination of Comparative Provider Profiles	<ul style="list-style-type: none"> - Improve Coding Accuracy - Predict, Explain and Improve Performance

ICD-11: Implementation impact

Codes are the language of health care and will impact virtually all areas.



ICD-11 Educational Resources

ICD-11 Training References & Resources

<p>WHO ICD-11 TRAINING PACKAGE Main page Browser Coding tool Reference guide WHO ICD-11 2023 Release Training package</p> <p>15 in-depth education tool units and more: How to use the ICD-11 Education Tool How to use ICD-11 Coding Tool & Browser ICD-11 Education Tool Death Certification Unit 1 – Introduction to ICD-11 Unit 2 – Mortality coding rules Unit 3 – Morbidity coding rules Unit 4 – Chapters 1, 2, 3 and 4 Unit 5 – Chapters 5, 6, 7, 9, 10 and 14 Unit 6 – Chapters 8, 11, 12, 13 and 15 Unit 7 – Chapters 16, 17 and 18 Unit 8 – Chapters 19 and 20 Unit 9 – Chapters 22 and 23 Unit 10 – Chapters 21 and 24 Unit 11 – Chapter 26 (module 1) Unit 12 – Section V – Supplementary section for functioning assessment</p>	<p>WHO: Unlocking the potential of ICD-11 for chronic pain https://www.who.int/news-room/events/detail/2023/06/14/default-calendar/who-webinar-on-unlocking-the-potential-of-icd-11-for-chronic-pain</p> <p>AHIMA Introduction to ICD-11 Coding Course (has fee) https://my.ahima.org/store/product?id=66776</p> <p>AHIMA FREE ON-DEMAND WEBINAR SERIES Presented by Kathy Giannangelo, MA, RHIA, CCS, CPHIMS, FAHIMA</p> <p>ICD-11: Modernizing ICD for the Digital World ICD-11: Establishing Flexibility ICD-11 MMS: A Glimpse into the Future</p> <p>AHIMA22 Global Conference ICD-11: What the Research Shows Regarding ICD-10-CM Innovation (slides on Teams)</p> <p>Susan H. Fenton, Kathy Giannangelo, Mary H. Stanfill</p>	<p>CANADIAN INSTITUTE FOR HEALTH INFORMATION WEBINARS CIHI is participating in the testing of ICD-11 and assessing the implications for potential implementation in Canada. Webinar Recordings: Webinar: Introduction to ICD-11 — Part 1 Webinar: Introduction to ICD-11 — Part 2 Webinar: Introduction to ICD-11 — Part 3 Webinar: Introduction to ICD-11 — Part 4 Webinar: Introduction to ICD-11 — Refresher</p> <p>ICD-11: Frequently Asked Questions</p> <p>More information about ICD-11 can be found on WHO's website External link, opens in new window</p> <p>INTERNATIONAL FEDERATION OF HEALTH INFO. MGMT. ASSOCIATIONS 2021 <i>Whitepaper: IFHIMA Fosters Planning for ICD-11 Adoption with Global Case Studies</i> 2022 <i>Webinar: Improving Global Health Information through Better Data (recording on Teams)</i></p>	<p>More Reading:</p> <p>Centers for Disease Control and Prevention - National Center for Health Statistics PowerPoint Presentation Update on ICD-11: The WHO Launch and Implications for U.S. Implementation</p> <p>Articles from different sources: ICD-11 Morbidity Pilot in Kuwait: Methodology and Lessons Learned for Future Implementation</p> <p>Syntax for ICD-11 post-coordination and clustering</p> <p>ICD-11: an international classification of diseases for the twenty-first century</p> <p>Pan American Health Organization - Virtual Campus for Public Health</p> <p>NATIONAL CENTER FOR HEALTH INFORMATION, KUWAIT</p> <ul style="list-style-type: none"> ICD-11 workshop part 1: Intro to ICD-11 coding ICD-11 workshop Part 2: Intro to multiple parenting, residual categories & foundation ICD-11 icons
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ICD-11 Readiness

How Should I Get Ready?

Although the implementation of ICD-11 in the U.S. may seem like a long way off, it would be both wise and valuable to start your ICD-11 education immediately.

AWARENESS:

- Meetings like this, blogs, trade shows, etc.
- Visit the WHO website at ICD.who.int/en

EDUCATION:

- WHO's ICD-11 training – 15 modules (free)
- AHIMA Introduction to ICD-11 Training - 3 chapters & 40 questions
- IFHIMA, AAPC websites
- Google, Vendor Partners, Professional Associations

Questions & Answers



Michelle Badore

Global Clinical & Nosology Content Manager
3M Health Information Systems



Kaycie LeSage, MSHCM, RHIA, CCS, CDIP, CPC

Domestic Clinical Nosology Manager
3M HIS

To Submit a Question: Go to the chat pod located in the lower left corner of your screen. Type your question in the text box, then click on the “Send” button.

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Please visit the materials download page for the CE information, which includes a list of the credits available, their expiration dates, and the link to the program evaluation.

You must complete the evaluation within 14 days of the live program date in order to receive your credits or a general certificate of attendance:

<http://events.hcpro.com/materialspub.cgi?YHHA111623A>

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This concludes today's program.

Be sure to register for our upcoming program:

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