

APN Meeting

29-30 June 2015, Siem Reap, Cambodia

ICD-11 field testing

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Classifications, Terminologies, Standards (CTS)

ICD-11 Field Trials

Main functions



- guide the revision process
- systematically test and enhance the ICD-11
- provide the data and evidence
- serve as a method for implementation, capacity building and marketing of ICD-11

ICD-11 Field Testing

Objectives

- to test the “**fitness of ICD-11** for **multiple purposes**”
 - Mortality coding
 - Morbidity coding
 - Other use cases
- assessing the **stability and comparability** between ICD-10 and ICD-11.
- ascertain the **added value** of ICD-11 when compared with ICD-10 or earlier versions.

Key Assessments

- **Applicability** – feasibility → easy to use
- **Reliability** - consistency → gives same results in the hands of all
- **Utility** - added value → *renders useful information*

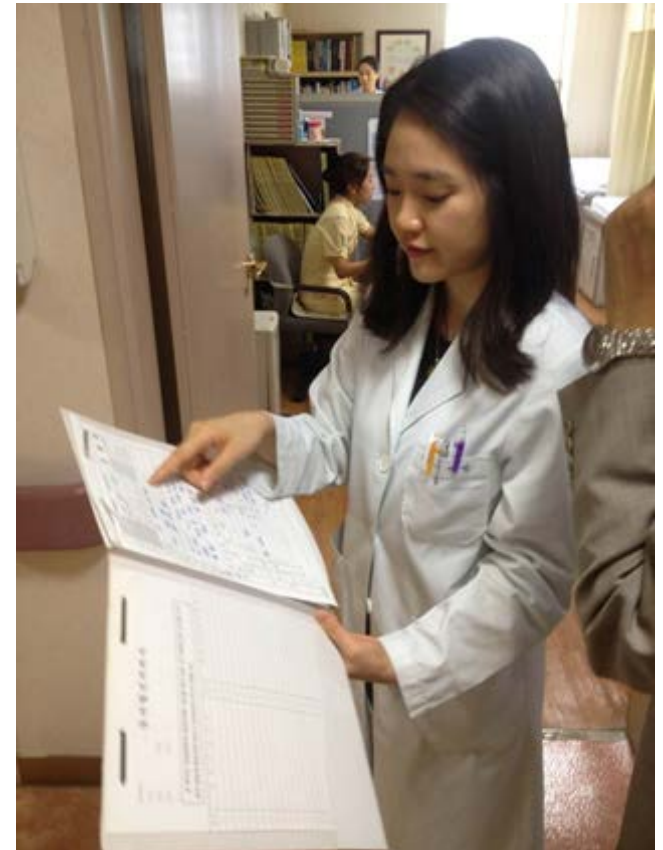
Field Trial Studies

1. Core Studies (mandatory)

- Study One:
 - Basic Questions
- Study Two:
 - Bridge Coding
- Study Three:
 - Reliability

2. Additional Studies (optional)

- Coding style, Stem and extension codes, Index, Quality of translations, Functioning properties, Overall architecture, other



Timeline for ICD-11 Field Testing

● Preparations: April - Oct. 2015

- Translation of necessary documents incl. ICD-11 Beta draft, FT manual, instruments, Case summaries used
- Identification of FT sites and participants
- Preparation and piloting of multilingual ICD FIT (web-based platform for data entry)
- Familiarization, training material development and simulation of FT Core studies

● Phase 1 (LIMITED beta draft testing): Nov 2015 – Dec. 2016

- Implementation of core protocols (Nov. 2015 - June 2016) i.e. Basic questions (Study 1), Bridge Coding (Study 2), Reliability (Study 3):
 - specific Chapters using ICD-11 as coding and diagnostic tool
 - JLMMS: selected mortality & morbidity case summaries mainly focusing on pre-coordinated categories
- Data analysis (July 2016 – Sep. 2016)
- Review of results by 1st ICD Revision Conference in conjunction with WHO FIC Annual Meeting in Japan (October 2016)
- Enhancement of ICD-11 Beta Draft and update of FT protocols and instruments (Nov 2016 –Dec 2016)

● Phase 2 (COMPREHENSIVE beta draft usage validation): Jan – Dec 2017

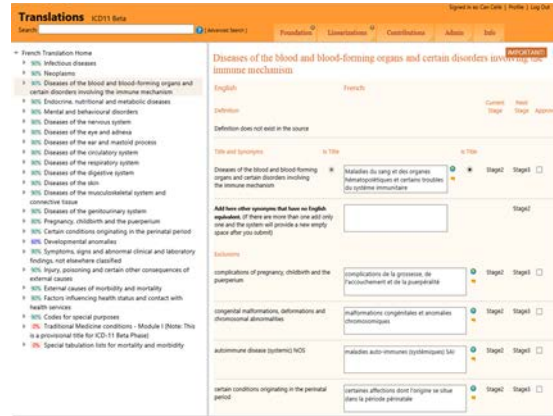
- Implementation of core and additional protocols e.g. Index – coding tool comparison, Stem – extension codes, Functioning properties, Terminology linkages (Jan. 2017 - June 2017)
 - JLMMS: full scale mortality & morbidity
 - If possible other core linearization's, e.g. ICD-11 Primary Care Version
- Data analysis (July 2017 – Sep. 2017)
- Review of results by 2nd Revision Conference in conjunction with WHO FIC Annual Meeting in Mexico (October 2017)
- Enhancement of ICD-11 final Draft (Nov 2017 –Dec 2017)

ICD-11 FT preparations

Translate ICD-11 Beta Draft using the ICD-11 Translation Platform

Ongoing and upcoming translations of ICD-11 Beta draft

- Arabic
- Chinese
- Catalan
- French
- Japanese
- Korean
- Norwegian
- Portuguese
- Russian
- Spanish
- Swedish
-



For starting the translation in your language:

- Send us your ICD-10 translation in EXCEL format for upload in the translation memory.
- Identify your translation team and forward their names so we can grant them access to the translation platform.
- The **priority for the translation work** is to complete the translation of the **category titles** up to the fourth character level and the related **inclusion** and **exclusion** terms.



ICD-11 FT preparations

Development of training material

- Review of existing ICD training material
 - What is common?
 - Structure & chapter by chapter introduction
 - Context & history
 - Q&A, Exercise
 - What is different?
 - No reference to common doc.(e.g. Ref. Guide)
 - No reference to tooling environment
 - No learning through information on common coding mistakes
- Suggested ICD-11 Training modules
 - Introduction to ICD-11 Key topics: Rationale of revision process, What is new and what has changed in ICD-11; Q&A, Exercises
 - ICD-11 tools Key topics: electronic tools, paper-based tools, Q&A, Exercises)
 - Coding using ICD-11 Key topics: chapter by chapter introduction, coding examples and exercises, Self evaluation test
 - ICD-11 Field Testing Key topics: FT objectives & timelines, Setting up FT centers and sites, administer core protocols



ICD-11 FT preparations

Identify FT center, sites and participants

- Identify **institutions** to serve as ICD-11 Field Trial Center (FTC) and Field Trial Sites (FTS).
- Identify **individuals** (within the institution) to serve as
 - FTC coordinator
 - FTS coordinator
 - Key informants (Study1)
 - Raters/Coders (Study 2 & Study 3)



ICD-11 FT preparations

Web-based data entry tool (ICD-FiT) in different languages

ICD-FiT v0.9

HOME

Verdi Giuseppe Fortunino

Language:

Unique Participant Number: ITA.001.002.002

Field Trial Centre: IT-WHO-CC

Field Trial Site: Conegliano

Go back

IT-WHO-CC Dashboard

study number	cases			assignments			
	raters	overall	case/raters	not assigned	overall	done	waiting
Study 1 TM	3	-	-	-	3	0	3
Study 2 TM	2	11	3	5	7	2	5
Study 3 TM	2	6	1	4	2	0	2

Study 1 TM - assignments: 100% waiting

Study 2 TM - assignments: 28.6% done, 71.4% waiting

Study 3 TM - assignments: 100% waiting

ICD-FiT v0.9

HOME

Della Mea Vincenzo

Language:

Field Trial Centre: IT-WHO-CC

Field Trial Sites (FTS)

Assign cases

Manage key informants

Dashboard

Elaborated for WHO under contract; WHO Registration: 2013/091419d-0.
Developed by Medical Informatics, Telemedicine & eHealth Lab, Dept. of Mathematics & Computer Science, University of Udine, Italy

Key features

- Computer Assisted Personal Interviews (CAPIs) for Core Protocols
- Interface with ICD-11 Browser & Coding Tool
- Dashboard for CAPI admin. & assignment of user rights
- Responsive interface which runs on tablets and mobile phone
- FTC can export their own dataset for conducting their own analysis
- Support of multilingual versions

For crating ICD-FiT in your language:

- Translate interface terms and FT instruments
- Conduct FT simulation to test functionality

ICD-11 FT preparations

Pilot coding of Case Summaries



- Morb. CASE #1: NEOPLASMS: 50 year old female presents for breast biopsy following an abnormal mammogram. Biopsy taken from the upper outer quadrant of the right breast confirms infiltrating **ductal carcinoma**. She was referred to the surgeon for further treatment.

ANSWERS: ICD-10 (2010): ____ ICD-11 (Oct 1): ____

- Morb. CASE #3: HAEMATOLOGY: Patient underwent a splenectomy for treatment of idiopathic thrombocytopenia.

ANSWERS: ICD-10 (2010): ____ ICD-11 (Oct 1): ____

- Morb. CASE #13: OBSTETRICS: Spontaneous **breech delivery** at 36 weeks of a liveborn infant. No complications post-delivery.

ANSWERS: ICD-10 (2010): ____ ICD-11 (Oct 1): ____

- QS CASE #1: Patient experienced an unexpected **burn to chest wall** as a result of **radiation therapy** for lung cancer. The documentation reveals that the **exposure time** was inadvertently prolonged. Cold compresses were applied to relieve the patient's discomfort.

ANSWERS: ICD-11 Code HARM OR INJURY.....; CAUSE:.....; MODE/MECHANISM:.....



Feedback on coding of Case Summaries

Case	ICD Version	WHO Coding	Assigned code by coder						
			Coder1	Coder2	Coder3	Coder4	Coder5	Coder6	Coder7
Case 1: NEOPLASM (breast cancer) -	ICD-10	C50.4 Malignant neoplasm of upper-outer quadrant of breast	C50.4	C50.4	C50.4	C50.4	C50.4	C50.4	C50.4
	ICD-11	2D9Y Other specified malignant neoplasms of breast	2D80	2D80	2D80	2D80	2D80	2D80	2D80
Case 3: HAEMATOLOGY (ITP)	ICD-10	D69.3 Idiopathic thrombocytopenic purpura	D69.3	D69.3	D69.3	D69.3	D69.3	D69.3	D69.3
	ICD-11	3A80.221 Immune thrombocytopenic purpura	3A80.221	3A80.14	3A80.221	3A80.221	3A80.221	3A80.221	3C11.2Y
Case 13: OBSTETRICS (breech delivery)	ICD-10	O60.1 Preterm spontaneous labour with preterm, O80 Single spontaneous delivery, Z37.0 Outcome of delivery, single live birth, Z37.0 Outcome of delivery, single live birth	O60.1	O60.1	O80.1	O80.1	O80.1	O80.1	O80.1
	ICD-11	JA70.2 Preterm spontaneous labour with preterm, JA15.6 Duration of pregnancy 34-36 completed weeks of pregnancy delivery, JA80.1 Single spontaneous delivery, spontaneous vertex delivery, QA95.5 Outcome of delivery, Single live birth	JA70.2	JA70.2	JA80.2	JA80.2	JA70.2	JA70.2	JA80.2
ICD-10 full match									
ICD-10 variation									
ICD-11 full mach									
ICD-11 variation									
Mismatch									

FEEDBACK QS CASE #1

Patient experienced an unexpected burn to chest wall as a result of radiation therapy for lung cancer. The documentation reveals that the exposure time was inadvertently prolonged. Cold compresses were applied to relieve the patient's discomfort.

Assigned codes & confidence ratings

Injury:

ND92 - Burn of trunk except perineum and genitalia (9 coders)

PD12 - Burn arising during procedure (1 coder)

FP80 - Acute effects of ionizing radiation on the skin (1)

Confidence: *Certain (42%), High Certainty (58%)*

Cause:

PC91.4 - Radiation therapy (9 coders)

PC88.2 - Radiological devices associated with adverse incidents: therapeutic, nonsurgical and rehabilitative devices (2 coders)

Confidence: *Certain (50%); High Certainty (50%)*

Mode/Mechanism:

PD12 - Burn arising during procedure (5 coders)

PD01 - Operator error (1 coders)

PB12.1 - Unintentional Causes: Other and unspecified mechanism: Exposure to radiation: Ionizing radiation (1 coders)

PD2A - Incorrect duration of administration or course of therapy (3 coders)

Confidence: *Certain (36%); High Certainty (55%); High Uncertainty (9%)*

Comments

“There is no opportunity to rate 'overdose' or operator error for this event “

“This code choice is note ideal for mode/mechanism, as there is no mode or mechanism for inadvertently prolonged radiation. I just used a generic mode/mechanism code. Not ideal. “

“it is less specific than the narrative in terms of the causation. Code chosen BECAUSE chest wall is only a part of the trunk and it is not listed as an option to code in X chapter “

“This injury is due to burn during radiation procedure PD12 but radiation is excluded. It may be useful to guide where the radiation overexposure burns could be coded.“



Action points for completing ICD-11 Field Testing preparation by October 2015



For further questions & information:

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- Translation of ICD-11 and FT material
- Feedback on ICD-10 coding problems & ICD-11 solution
- Protocol development
 - Core Studies
 - Study 1: propose and pilot BQs
 - Provide information for case summaries development for Study 2 and study 3
 - Additional Studies
 - Indicate for which studies participation is considered
- Identify Field Trial Centres & Sites
- Pilot core study protocols using ICD-FiT in your language