

Update on ICD-11

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NCHS Board of Scientific Counselors

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ICD Revision History (Mortality and Morbidity)

<i>ICD Revision No.</i>	<i>Year of Conference When Adopted</i>	<i>Year in Use in the U.S. Mortality</i>	<i>ICD, Clinical Modification Morbidity</i>	<i>Year in Use in the U.S.</i>
First	1900	1900-1909		
Second	1909	1910-1920		
Third	1920	1921-1929		
Fourth	1929	1930-1938		
Fifth	1938	1939-1948		
Sixth	1948	1949-1957		
Seventh	1955	1958-1967		
Eighth	1965	1968-1978	ICDA-8 H-ICDA-1 H-ICDA-2	1968-1978 1968-1972 1973-1978
Ninth	1975	1979-1998	ICD-9-CM	1979
Tenth	1989	1999-	ICD-10-CM	Oct. 1, 2015

Need for an 11th Revision

- ICD-10, despite the updating process, ICD-10 is clinically outdated
- Structural changes were needed to some chapters
- Increasing need to operate in an electronic environment
- Need to capture more information for morbidity use cases

ICD-11 Revision Goals

- Ensure that ICD-11 will function in an electronic environment
 - Will be a digital product
 - Link with terminologies (e.g., SNOMED)
 - 22 July 2010 - WHO and the International Health Terminology Standard Development Organisation (IHTSDO) have worked on a collaborative arrangement to link the WHO Family of Classifications and the Standardized Nomenclature of Medicine - Clinical Terms (SNOMED CT). This arrangement enables the linkage of terminologies and classifications. In the era of computerization of health information and electronic health records, it represents a major achievement.
 - ICD Categories
 - “defined” by "logical operational rules" on their associations and details
 - Support electronic health records and information systems

ICD-11 Revision Goals (cont'd)

- Multi-purpose and coherent classification
 - Mortality, morbidity, primary care, clinical care, research, public health...
 - Consistency & interoperability across different uses
- International multilingual reference standard for scientific comparability
 - English, French, Spanish, Russian, Chinese, Arabic

ICD-11 Development Process

U.S. Involvement

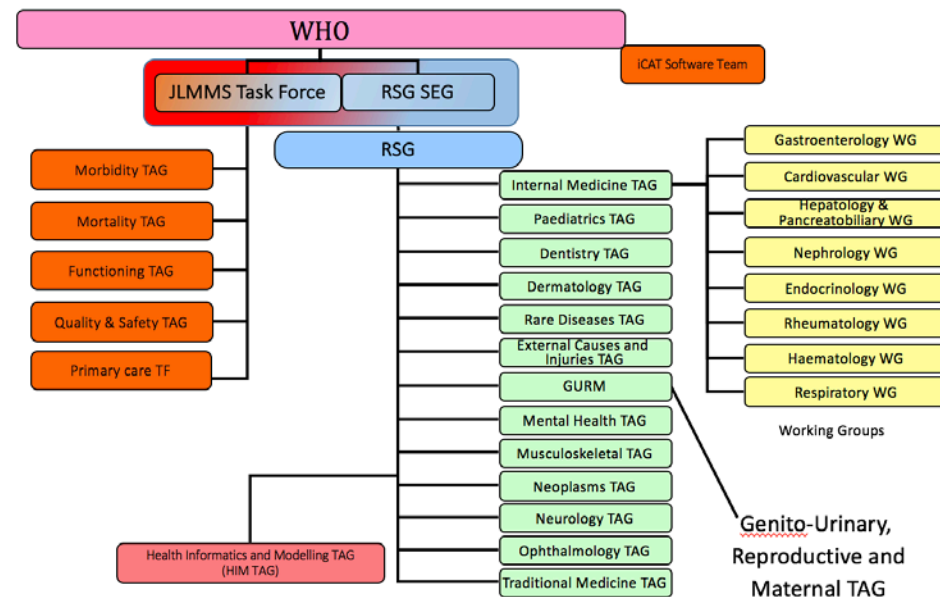
- RSG & RSG-SEG chair: Dr. Christopher Chute, Johns Hopkins
- Cross-cutting Topic Advisory Groups (TAGs):
 - Co-chair Mortality TAG – Robert Anderson, NCHS
 - Co-chair Morbidity TAG – Donna Pickett, NCHS
 - Co-chair Functioning TAG – Cille Kennedy, ASPE
- Joint Task Force (JTF)
 - Robert Anderson, NCHS
 - Dr. Christopher Chute, Johns Hopkins
 - Donna Pickett, NCHS
- MSAC and CSAC
 - Dr. Christopher Chute, Johns Hopkins (MSAC)
 - Donna Pickett, NCHS (CSAC)

PHASE 1 – Design

- Project planning
- Setting up working groups
- Setting up IT infrastructure
- Free authoring
- Review of process in 2015 for priority setting

2007-2015

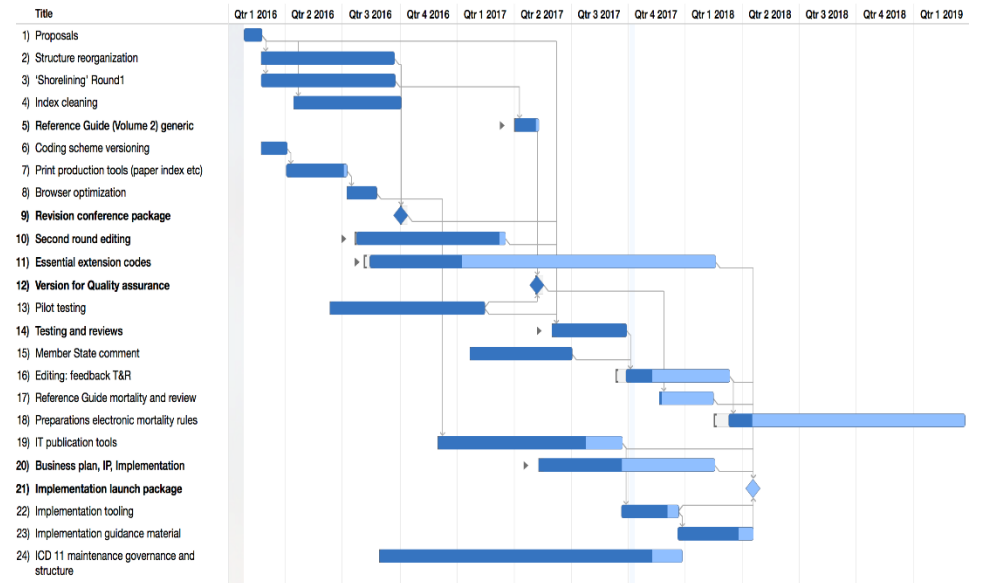
ICD Contribution



Phase 2 – Consolidation

2015-2018

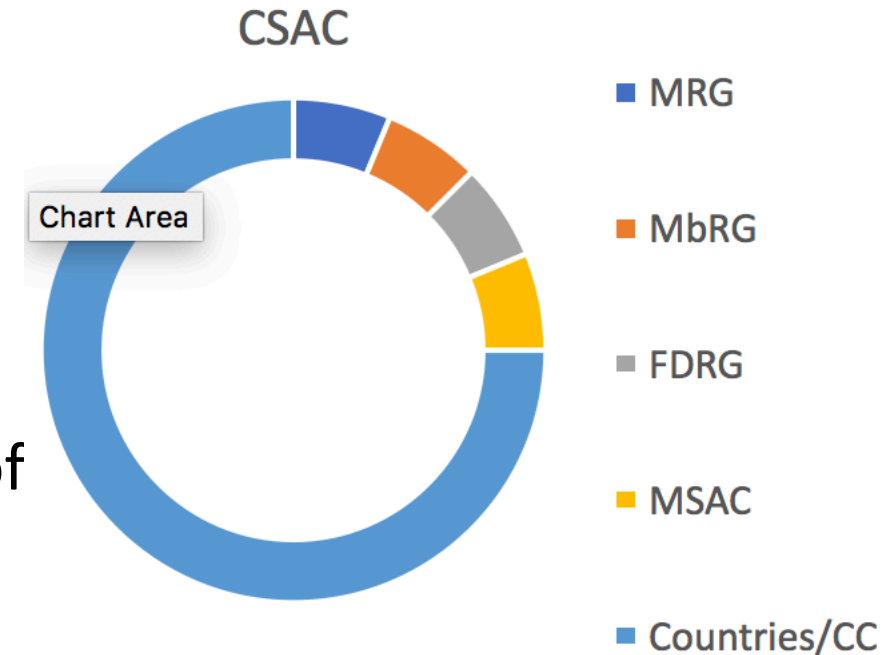
- Formation of Joint Task Force: support to priority decisions
- End of Topic Advisory Groups
- Chapter reviews and editing to become statistical classification
- Improve user guidance
 - Index, notes, postcoordination
 - Reference guide – explanations, rules, forms
- Implementation package
 - Advocacy
 - Training
 - Transition tables
 - Classification + Index (browser + coding tool)
 - Transition guide
 - IT services
- Governance for maintenance



Phase 3 – Implementation

2018-2021

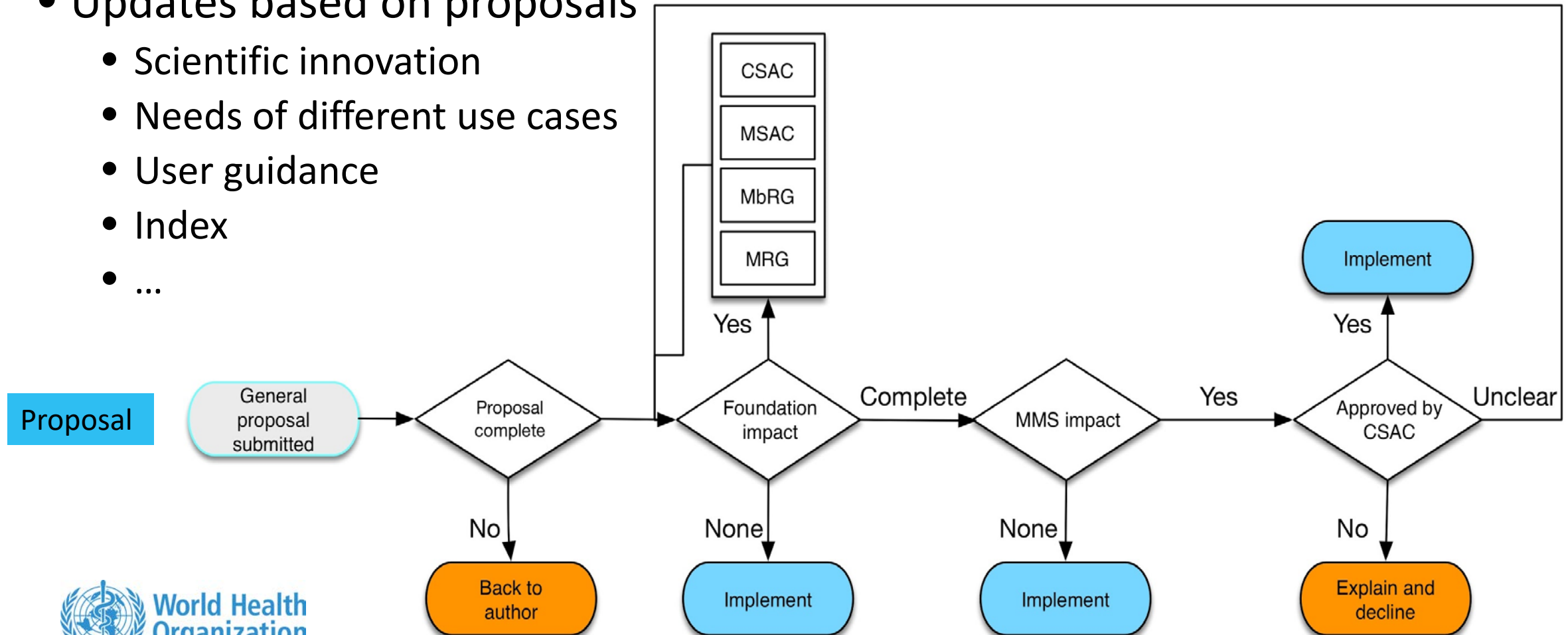
- Release version for implementation June 2018
- Countries start implementation process
- MSAC up and running
- CSAC up and running
- End of maintenance of ICD-10 (except for correction of errors)
- Finalization of mortality rules
- Updates to ICD-11 based on input from implementation
 - Additional user guidance / clarifications / adding or removing few individual categories
- Updates to ICD-11 based on other proposals
- 1st update after 3 years



Phase 4 – Regular maintenance

from 2021

- Updates based on proposals
 - Scientific innovation
 - Needs of different use cases
 - User guidance
 - Index
 - ...



Field Trials

- WHO will develop a framework to ensure standardization of beta testing
- Goals
 - Test fitness of ICD-11 for multiple purposes (mortality, morbidity, quality, other use cases)
 - Ensure comparability between ICD-10 and ICD-11
 - Increase consistency, identify improvement paths, reduce errors

Field Trials (cont'd)

- Assessments
 - Applicability (feasibility): ease of use
 - Reliability (consistency): same results by all each time
- Utility (added value): renders useful information
 - Mortality: cause of death coding, verbal autopsy
 - Morbidity: hospital discharge, outpatient, casemix
- Different settings
 - Primary care: high and low resource settings
 - General health care
 - Research settings: population health, clinical research

ICD-11 Tools apps.who.int/classifications/icd11/browse

- Coding tool: spelling-synonyms
 - icd11ct.cloudapp.net/ct#/
- ICD-11 browser
 - See foundation and linearization – grid view
 - Download versions
 - ‘Frozen’ versions
 - See differences
- Proposal tool
 - Make suggestions and discuss them
 - Notifications
- Review tool
- Translation tool
 - Translate in your language
- Mapping tool
 - See mapping at detailed level
 - Comment mapping to and from ICD-10

www.who.int/classifications/icd/revision/

Online information:

- FAQ
- Video
- Working groups
- ICD-11 features

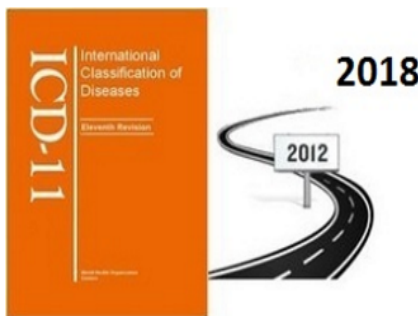
Sign up for WHO updates



Classifications

- Family of International Classifications
- Family of International Classifications network
- Classification of Diseases (ICD)**
- Classification of Functioning, Disability and Health (ICF)
- Classification of Health Interventions (CHI)
- Frequently asked questions

The International Classification of Diseases 11th Revision is due by 2018



Participate in the ICD Revision

- Beta phase participants will have the opportunity to:
- Make **Comments**
 - Make **Proposals**
 - Propose **definitions** of diseases in a structured way
 - Participate in **Field Trials**
 - Assist in **translating** ICD into other languages

[Video invitation to participate](#)

[Frequently Asked Questions About ICD-11](#)

[ICD Information Sheet](#)

[ICD Revision Information Notes](#)

[ICD-11 Browser for browsing the classification and participating the development](#)

ICD-11 Highlights



ICD-11 Newsletter - November 2015
[pdf 209kb]
A quarterly update from the WHO team on the ICD-11 progress, accomplishments, and ongoing work.



Sign Up!

Register to become involved
WHO wants to know if you are interested in being involved in the ICD Revision.



Timelines
Learn about the ICD-11 Timelines

New ICD-11 Features



[Content Model](#)

[Definitions](#)



[Field Trials](#)

ICD Revision

[Revision News](#)

[Steering Group](#)

[Topic Advisory Groups](#)

[External Review of the ICD-11 Revision](#)

[ICD-11 Project Plan](#)

ICD-11 Implementation Considerations/Challenges (Morbidity)

- WHO Licensing implications
 - Operational mechanisms regarding copyright restrictions have not been spelled out
 - How will “for US government purposes” defined? 1990 NCVHS Report stated that in the US,“government use” is not a single definition.....
 - Impact that copyright on ICD-11 would have on cost and use in the US
 - Vendor implications
- WHO intention to limit development of national modifications
 - Specific limitations have not been spelled out
- Revisions to existing HIPAA standards to accommodate ICD-11 including:
 - Changes in structure and conventions
 - Changes to X12 (for example change to 5010 from 4010)
 - Post coordination
 - Clustering

ICD-11 Implementation Considerations/Challenges (Mortality)

- Revision of automated coding system
 - Decision tables – international effort
 - Extension codes and cluster coding
- Retraining of coders
 - Revision of coder training materials and electronic tools
- Revision of
 - File formats
 - Edits
 - Instruction manuals
 - Tabulation lists
- Comparability study – bridge coding

ICD-10-CM Implementation Timeline

- Evaluation of ICD-10 for U.S. purposes (1994 - 1997)
Summary document available at <http://www.ncvhs.hhs.gov/031105a1.htm>
- NCVHS Hearings (1997-2003)
Summary document available at <http://www.ncvhs.hhs.gov/031105a2.htm>
- NPRM (2008)
- Final Rule (2009)
- NPRM (2012)
- Final Rule (2012)
- Interim Final Rule (2014)

ICD-10-CM Implementation Timeline and ICD-11 Implications for Morbidity

- Evaluation of ICD-11 for U.S. purposes (2018 – 2021? 2022?)
- NCVHS Hearings (2021-2027?)
- NPRM (?)
- Final Rule (?)
- NPRM (?)
- Final Rule (?)
- Interim Final Rule (?)

Thank You

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Web: <http://www.cdc.gov/nchs/icd/icd10cm.htm>