Update on ICD-11

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National Committee on Vital and Health Statistics
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## ICD Revision History (Mortality and Morbidity)

<table>
<thead>
<tr>
<th>ICD Revision No.</th>
<th>Year of Conference When Adopted</th>
<th>Year in Use in the U.S. Mortality</th>
<th>ICD, Clinical Modification Morbidity</th>
<th>Year in Use in the U.S.</th>
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</thead>
<tbody>
<tr>
<td>First</td>
<td>1900</td>
<td>1900-1909</td>
<td></td>
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<tr>
<td>Second</td>
<td>1909</td>
<td>1910-1920</td>
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<tr>
<td>Third</td>
<td>1920</td>
<td>1921-1929</td>
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<td>Fourth</td>
<td>1929</td>
<td>1930-1938</td>
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<td>Fifth</td>
<td>1938</td>
<td>1939-1948</td>
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<tr>
<td>Sixth</td>
<td>1948</td>
<td>1949-1957</td>
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<tr>
<td>Seventh</td>
<td>1955</td>
<td>1958-1967</td>
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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• ICD-10, despite the updating process, ICD-10 is clinically outdated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

WHO

JILMMS Task Force

RSG SEG

RSG

Morbidity TAG
Mortality TAG
Functioning TAG
Quality & Safety TAG
Primary Care IT

Internal Medicine TAG
Pediatrics TAG
Dentistry TAG
Dermatology TAG
Rare Diseases TAG
External Causes and Injuries TAG

GURM
Mental Health TAG
Musculoskeletal TAG
Neurology TAG
Neurology TAG
Ophthalmology TAG
Traditional Medicine TAG

Working Groups

Gastroenterology WG
Cardiovascular WG
Neurology WG
Endocrinology WG
Rheumatology WG
Hematology WG
Respiratory WG

Genito-Urinary, Reproductive and Maternal TAG

World Health Organization
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
  - ...

Proposal

General proposal submitted

Proposal complete

Foundation impact

Complete

MMS impact

Approved by CSAC

Implement

Yes

Implement

Yes

Yes

Unclear

No

No

No

Explain and decline

Back to author

Implement

Implement

No
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
The International Classification of Diseases 11th Revision is due by 2018

Participate in the ICD Revision

- 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 Update

- ICD-11 Newsletter - November 2015 (part 2096)
- A quarterly update from the WHO team on the ICD-11 progress, accomplishments, and ongoing work.

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

- Context Model
- Definitions
- Field Tests
- Revisions
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

  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

- NCVHS Hearings (2021-2027?)
- NPRM (?)
- Final Rule (?)
- NPRM (?)
- Final Rule (?)
- Interim Final Rule (?)
Thank You

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For more information please contact Centers for Disease Control and Prevention

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