Information session on ICD-11

Introductory words by ADG HMM Dr Lubna Alansari
ICD-11 – Statistical Classification

ICD is the international standard for recording, reporting and measuring health & health services

Count health related problems in standard way

Comparison across countries and over time

- Mortality Statistics
- Morbidity Statistics
- Quality and Safety
- Primary care
- Health Care Costs
- Progress towards SDG and UHC
- Clinical documentation
ICD-11

- Diseases
- Disorders
- Syndromes
- Signs and symptoms, findings
- Injuries
- External causes of injury
  - Non-intentional
  - Intentional
  - Healthcare
  - Assault
  - War
- Factors influencing health status or contact with health services
ICD Revisions

The ICD revisions from 1900 to 2018, with intervals in years:
- ICD-1 (1900) to ICD-2 (1909): 9 years
- ICD-2 (1909) to ICD-3 (1919): 10 years
- ICD-3 (1919) to ICD-4 (1929): 10 years
- ICD-4 (1929) to ICD-5 (1938): 9 years
- ICD-5 (1938) to ICD-6 (1948): 10 years
- ICD-6 (1948) to ICD-7 (1955): 7 years
- ICD-7 (1955) to ICD-8 (1965): 10 years
- ICD-8 (1965) to ICD-9 (1975): 10 years
- ICD-9 (1975) to ICD-10 (1990): 15 years
Content

- Steps towards ICD-11
- Elements mentioned in the proposed draft resolution
- Current work
- Where are we now and next steps
Phases

- Phase 1 design and authoring 2007-2016
  - Planning, Topic Advisory Groups, development of content and structure

- Phase 2 consolidation, testing and review 2016-2018
  - Joint Task Force and start Medical Scientific Advisory Committee
  - Revision conference
  - Field testing
  - Member State comments
Phases

- **Phase 3 – Implementation preparation** (from 2018)
  - Secretariat ➔ regional meetings to inform in more detail and conduct training
  - Collect terms and additional needs (support, clarifications)
  - Translations
  - Planning migration of mortality coding tools (IRIS)
  - Assessing where impact nationally and how to update
  - Test implementation of electronic tooling of ICD-11

- **Phase 4 - Routine maintenance** (After ICD-11 comes into effect for international reporting)
  - Statistical continuity and reality of implementation capacity
  - Coding needs and clinical detail
Phase 3 – implementation preparation

- Release version for implementation preparation June 2018

- Maintenance process and bodies up and running
  - Classification and Statistics Advisory Committee (CSAC)
  - Updates to ICD-11 based on input from implementation, e.g. additional user guidance / clarifications / adding or removing few individual categories
  - Updates to ICD-11 based on proposals (1st update envisaged after 1 year, following recommendation of CSAC and JTF)
Some feedback from implementation preparation

- Clarification why terminology change from ‘accident’ to ’non-intentional injury’
- Add frequent terms from different countries for indexing
- Issue congenital Lyme diseases versus intrauterine Borrelia burgdorferi infection
- Clarification of meaning of inclusion of diagnoses from traditional medicine, and choice of current subset
- Inclusion of key definitions related to transport accidents also in the classification, not only in the reference guide and also include definitions of unintentional and intentional events.
- Some terms are long and detailed but need synonyms from daily use,
  Examples: 1) Unintentional land transport road traffic injury event. 2) Intentional self-harm by land transport injury event unknown whether traffic or nontraffic.
Phase 3

- Statistical review meeting

- Final report of the Joint Task Force for the Revision of ICD
  (formed to advise toward production of a classification suitable for mortality and morbidity statistics – nosologists, medical experts, statisticians)
  - Recommendation: ready for submission
  - Allow time for implementation
  - Ensure ongoing maintenance

- WHO Family of Classifications Network meeting and First meeting of the Classification and Statistics Advisory Committee (Korea, October 2018)
  - 55 Member States
  - Review of ICD-11
  - Updates
  - Recommendation: ready for submission
Classifications and Statistics Advisory Committee

- Session in October and review of classification, rules and processes
  - Report from Mortality Reference Group (mortality rules)
  - Report from Morbidity Reference Group (morbidity rules)

- Experts from 55 Member States
  Argentina, Australia, Bahrain, Bangladesh, Bhutan, Brazil, Cambodia, Canada, China, Colombia, Cuba, Czechia, Democratic People’s Republic of Korea, Denmark, Ecuador, Finland, France, Germany, Ghana, India, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Italy, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Kuwait, Lao People’s Democratic Republic, Libya, Mexico, Myanmar, Namibia, Nepal, Netherlands, Portugal, Republic of Korea, Russian Federation, Rwanda, South Africa, Spain, Sri Lanka, Sweden, Switzerland, Thailand, Trinidad and Tobago, Tunisia, United Kingdom of Great Britain and Northern Ireland, United Republic of Tanzania, United States of America, Viet Nam, Zambia
ELEMENTS MENTIONED IN THE PROPOSED DRAFT RESOLUTION
ICD-11

- 24 Chapters
- +1 Chapter codes for special purposes (space for national use and emergencies)
- +1 Chapter Traditional Medicine Diagnoses - Module 1
- Supplementary section for functioning assessment
- Extension codes
ICD-11 Mortality Rules and Definitions

- Cause of death and underlying cause of death
  - Unchanged compared to ICD-10

- Definitions in relation to fetal, perinatal, neonatal and infant mortality
  - Unchanged compared to ICD-10

- Definitions related to maternal mortality
  - Added label for a grouping of maternal and late maternal deaths, otherwise unchanged compared to ICD-10

- Rules for mortality coding
  - Principles unchanged compared to ICD-10; adapted for use with ICD-11

- Requirements for reporting
  - Unchanged compared to ICD-10
ICD-11 Morbidity – Guidelines

- **Main diagnosis for international reporting:**
  - Reason for encounter after assessment at the end of the stay or episode 
    (was formerly main resources condition; new definition is not so different but has less space for interpretation)
  - Example: Contact with health system because of cough. Subsequent diagnostic effort reveals that 
    cough is caused by pneumonia. Main diagnosis is pneumonia

- **Selection of main diagnosis:**
  - Intent same as ICD-10,
  - Updated to be more understandable, based on international experience 
    with ICD-10
  - Edited for use with ICD-11
Rules for statistical presentation

- Recommended short tabulation lists ('special tabulation lists')
  - Adapted for use with ICD-11; unchanged compared to ICD-10

- Recommendations in relation to statistical tables for international comparison
  - Unchanged compared to ICD-10

- Standards and reporting requirements related to fetal, perinatal, neonatal, and infant mortality
  - Unchanged compared to ICD-10

- Standards and reporting requirements related to maternal mortality
  - Unchanged compared to ICD-10
ICD – Maintenance

- Scientific updates
- Use case needs
  - Change level of detail
  - User guidance

Proposal

Completeness

Input
(proposal platform)

Verification
(use case, scientific)

Verification
(statistical)

Classification and Statistics Advisory Committee (CSAC)

Medical Scientific Advisory Committee

Mortality Reference Group

Morbidity Reference Group

Functioning and disability reference group

Traditional medicine reference group

ICD
WHO Family of Classifications

RELATED Classifications

- International Classification of Primary Care (ICPC)
- International Classification of External Causes of Injury (ICECI)
- The Anatomical, Therapeutic, Chemical (ATC) classification with Defined Daily Doses (DDD)
- ISO 9999 Technical aids for persons with disabilities – Classification and Terminology
- International Classification of Nursing Practice

INTERNATIONAL Classifications

- International Classification of Diseases
- International Classification of Functioning, Disability & Health
- International Classification of Health Interventions

Special versions

- International Classification of Diseases for Oncology, Third Edition (ICD-O-3)
- The ICD-10 Classification of Mental and Behavioural Disorders
- Application of the International Classification of Diseases to Dentistry and Stomatology, Third Edition (ICD-DA)
- Application of the International Classification of Diseases to Neurology (ICD-10-NA)
ICD-11 Foundation

- Index
- ICD 11 for Mortality and Morbidity Statistics
- Specialty versions
- Content model
- Extension codes

Links, e.g.
- SNOMED (Terminology)
- Orphanet (Rare diseases)
- ICPC (Family medicine Classification)

Pharmacological Substances WHO International Nonproprietary Names (INN) (=> WHO ATC)

ICD-10 Special Versions, e.g.
- ICD-10 Maternal Mortality
- ICD-10 Dentistry
- ICD-10 Mental Health
- ...

ICD-10 National Modifications

ICD-O Tumours

External Causes of Injury (ICECI)

ICHI dimensions (International Classification of Health Interventions)
Overview of proposed draft resolution

- **For adoption**
  - Detailed list of four-character categories and optional five- and six-character subcategories with the short tabulation lists for mortality and morbidity
  - The definitions, standards and reporting requirements related to maternal, fetal, perinatal, neonatal and infant mortality;
  - The rules and instructions for underlying cause coding for mortality and main condition coding for morbidity;

- **For endorsement**
  - Development and implementation of the family of disease and health-related classifications, with the ICD as the core classification linked to other related classifications, specialty versions and terminologies
  - Updating process within the lifetime of ICD-11

- **Request**
  - Put in place mechanism for maintenance and dissemination
  - Member State support
  - Regular progress reports
CURRENT WORK
Current steps in the process

- Classifications and Statistics Advisory Committee has started work
- Medical Scientific Advisory Committee has started work

Reviews and decisions about some issues:

- Chronic fatigue syndrome: no evidence for change, keep in ‘postviral fatigue’ in the chapter of nervous system
- Congenital Lyme disease: transplacentar transmission of Borrelia burgdorferi possible, but no evidence for a congenital disease of newborn (in contrast e.g. to Zika, or Rubella)
- Scientific agreement on way to categorize vascular dementia
- Addition of clinical terms
Ongoing work

- Improvements of coding interface
  - it replaces the index,
  - is coding reference
  - Any proprietary coding system will need to provide the same results
  - 105000 terms, much more than 1,6 million codable terms (thanks to postcoordination)

- QA checks of structure and terms

- Expansion and QA of postcoordination (impact on coding tool)

- Expansion of index
  - Terms from IRIS (15000 processed, some 500 added, some 2600 not matched)
  - Frequent terms from countries from different regions (some 1000 added)
  - Terms hidden in residual categories of ICD-10
  - Check against other terminologies (e.g. MedDRA, 55 missing 600 to be checked); SNOMED Diagnoses

- Assessment of statistical impact based on WHO mortality data
  (sample set of countries from different regions good quality data)

- Mapping to other terminologies and classifications
Where are we now and next steps
Implementation tools

- **Translation platform**
  - Added functionality for automated translation support
  - Synchronous moves where terms are moved in the English source

- **Coding tool**
  - Increased hit rates
  - Simplify, like online search engine
  - Plugin for any software environment (API...)

- **ICD FIT (Field implementation testing)**
  - Embedding coding engine
  - Easier handling

- **WHO ANACOD (quality assurance) - update in preparation**
Implementation package

- The ICD-11 (browser, coding, reference guide)
- Transition guide
- Maps between ICD-10 and ICD-11
- Self learning training tool (in preparation)
- Statistical baseline comparison (mortality) ICD-10 - ICD-11 (in preparation)
ICD-11

- More ready than any ICD revision before
  - Has index/coding engine (*ICD-10 only 4 years after adoption*)
  - Has manual ‘Reference Guide’ (*ICD-10 2 years after adoption*)
  - Has maps from and to ICD-10 (*late and competing maps between ICD-10 and ICD-9*)
  - Has training materials (*under preparation*)
  - Has implementation/transition guide (*none for ICD-10*)
  - Maintenance mechanism (*ICD-10 only 8 years after adoption*)
- International reporting in the 3\textsuperscript{rd} year after adoption (no sanctioning in case of delays)

⇒ Implementation much more supported than with ICD-10
Accessing ICD-11

- **Classification**
  - Human browsing: Browser
  - Software browsing: Application programming interface (API)

- **Coding engine** (replaces former index)
  - Human coding: Coding tool
  - Software interface: Application programming interface (API)

- **Reference Guide** (User manual)
  - Principles, rules, guidance
  - Change documentation

Multilingual
Available online
Available offline (local computer or network)
Download files
Print (Tabular list, Reference Guide, Index)
Summary

- Content of ICD-11 judged to be ready
- Rules and standards for international reporting unchanged
- Materials available
- Mechanisms for updating in place
- Regional meetings to inform in more detail and conduct training and regional planning
  - EMRO Jan 2019; PAHO Feb 2019; AFRO, EURO, SEARO, WPRO jointly Feb 2019
Next steps

- Report by director general gives overview of major steps and recommendations

- Report by director general includes a proposed draft resolution
  - For consideration
  - In case of adoption, submission to WHA 2019
  - International reporting in the 3rd year after adoption (no sanctioning in case of delays)