

WHO:s nya klassifikation ICHI – International Classification of Health Interventions

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Socialstyrelsens hälsorelaterade klassifikationer

- **Internationell statistisk klassifikation av sjukdomar och hälsoproblem (ICD-10-SE)**
- **Internationell klassifikation av funktionstillstånd, funktionshinder och hälsa (ICF)**
- **Klassifikation av vårdåtgärder (KVÅ)**
- **Klassifikation av socialtjänstens insatser och aktiviteter (KSI)**

WHO:s huvudklassifikationer



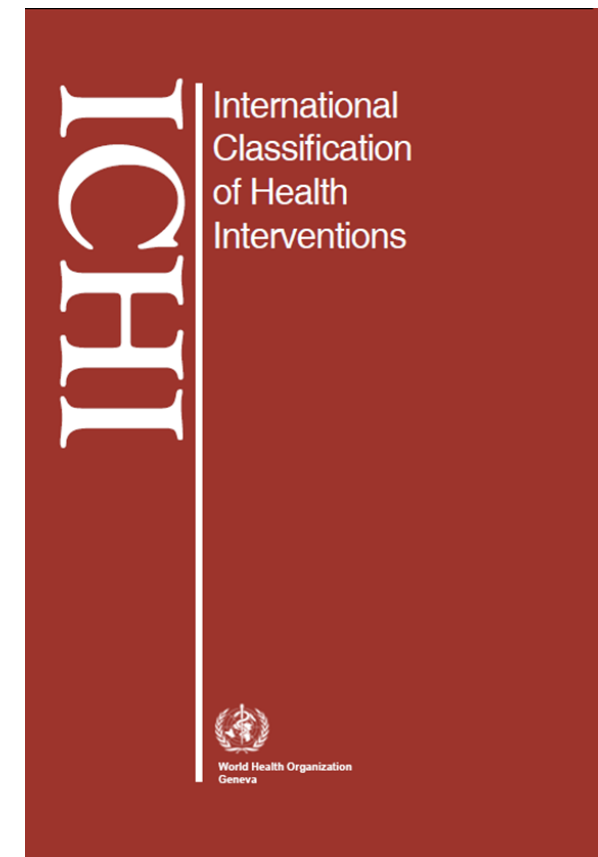
ICHI utveckling 2007 till 2019

2007: Fanns ingen användbar internationell klassifikation

- Spridning av nationella klassifikationer
- Nationella klassifikationer – medicinsk/kirurgisk inriktning
- Många länder utan klassifikation
- Internationella jämförelser är svåra

2019: WHO ICHI Beta 2 version

- Bred baserad (ny version varje år sedan 2012)
- Begrepp i överensstämmelse med ICF i synnerhet
- Extensionskoder för detaljer och flexibilitet
- Tester under 2018 och 2019
- Användning tillsammans med ICD och ICF



Användningsområde för ICHI

- Internationella jämförelser
 - Ex rapportering till the Organisation for Economic Co-operation and Development (OECD) och Eurostat (European Statistical Office)
- Stödja globala initiativ
 - ***FN:s globala mål för hållbar utveckling*** (Sustainable Development Goals) – Agenda 2030
 - Globala målet nr 3: God hälsa och välbefinnande dvs alla människor ska ha möjlighet att leva ett hälsosamt liv
 - ***Universal Health Coverage*** - tillgång till grundläggande hälso- och sjukvård
 - innebär att alla människor ska få tillgång till den hälsovård de behöver, till en kostnad som inte försätter dem i ekonomiska svårigheter

Användningsområde för ICHI

- Nationell användning av ICHI
 - Länder utan någon klassifikation av hälsointerventioner
 - Länder (andra än USA) som har använt ICD-9-CM Volume 3
 - Länder som har en nationell klassifikation - vidareutveckla med användning av ICHI
 - Komplettering till en nationell klassifikation - med komponenter från ICHI
- Patientsäkerhet samt för kvalitet
- Hälsosystem
 - Kliniskt, casemix, finansiering, uppföljning av verksamhet

- **A health intervention is an act performed for, with or on behalf of a person or population whose purpose is to assess, improve, maintain, promote or modify health, functioning or health conditions**

ICHI Beta 2 2018: ICHI Tabular List

1. Interventions on Body Systems and Functions

Chapter 1 - 12 arranged by Body system; each includes interventions on Body functions

2. Interventions on Activities and Participation Domains

Chapter 13 - 21 arranged by ICF Activity & Participation chapters

3. Interventions on the Environment

Chapter 22 - 26 arranged by ICF environment factors

4. Interventions on Health-related Behaviour

Chapter 27

Note: Public health interventions generally have Targets in chapter 22-27

ICHI Platform

<https://mitel.dimi.uniud.it/ichi/>

The screenshot shows the ICHI Platform website interface. At the top, there is a dark red header with the ICHI logo on the left, followed by a dropdown menu for 'Beta-2 2018', a search bar, and another dropdown menu for 'ICHI'. On the right side of the header, there are links for 'Info' and 'Sign in'. Below the header, the main content area is divided into three columns. The left column contains a 'Section' dropdown menu and a list of four categories: '1. Interventions on Body Systems and Functions', '2. Interventions on Activities and Participation Domains', '3. Interventions on the Environment', and '4. Interventions on Health-related Behaviours'. The middle column features a yellow header for 'ICHI Beta-2 2018' and contains a welcome message, a link to browse proposed content, and a list of links for further information: 'ICHI Beta-2 2018', 'Acknowledgements', 'Introduction', 'Draft ICHI Guidelines', and 'ICHI Platform User Guide'. The right column has a yellow header for 'CAVEATS' and lists the status of ICHI Beta-2 2018: 'NOT FINAL', 'updated on regular basis', 'It is not approved by WHO', and 'NOT TO BE USED for CODING except for agreed FIELD TRIALS'.

ICHI

Beta-2 2018 ▾

Search

ICHI ▾

Info ▾

Sign in ▾

ICHI Beta-2 2018

ICHI

Section ▾

- 1. Interventions on Body Systems and Functions
- 2. Interventions on Activities and Participation Domains
- 3. Interventions on the Environment
- 4. Interventions on Health-related Behaviours

ICHI Beta-2 2018

Welcome to the browser for the International Classification of Health Interventions Beta-2 2018.

You can browse the ICHI proposed content here.

Here you can find further information:

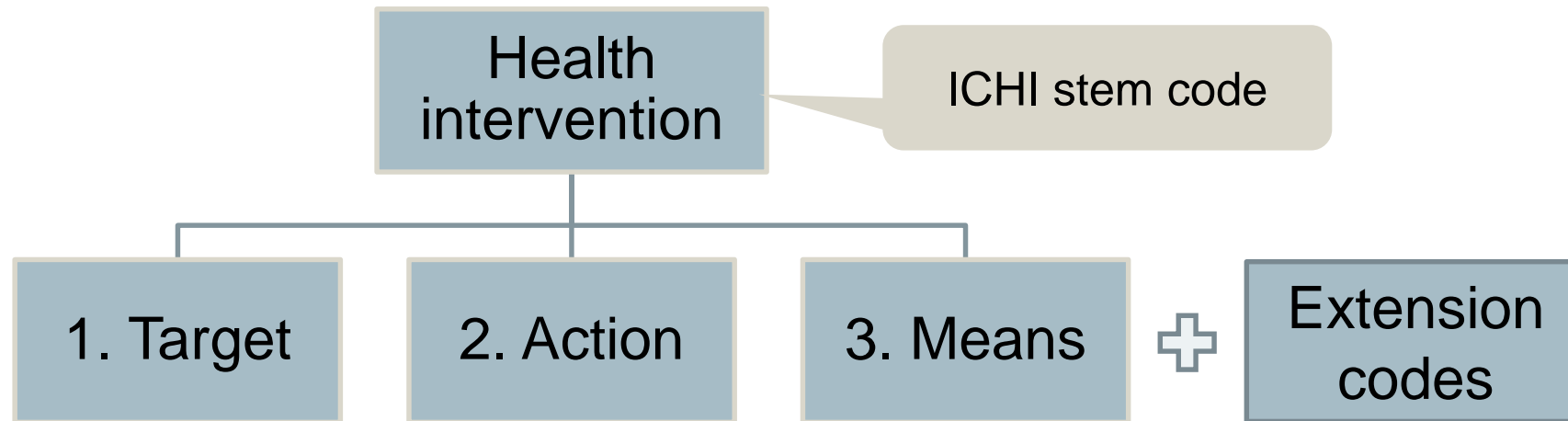
- [i ICHI Beta-2 2018](#)
- [i Acknowledgements](#)
- [i Introduction](#)
- [i Draft ICHI Guidelines](#)
- [i ICHI Platform User Guide](#)

⚠ CAVEATS

ICHI Beta-2 2018 is:

- NOT FINAL
- updated on regular basis
- It is not approved by WHO
- NOT TO BE USED for CODING except for agreed FIELD TRIALS

ICHI structure - three axes



Target: entity on which the Action is carried out

Action: a deed done by an actor to a Target

Means: the processes and methods by which the Action is carried out

Extension codes (optional) – additional information

ICHI komponenterna

Navigering i ICHI. Genom att klicka på någon enhet på vänster sida av skärmen, kommer detaljerna för den enheten att visas på höger sida av skärmen

The screenshot displays the ICHI Beta-2 2018 interface. On the left, a navigation tree shows the hierarchy: 1. Interventions on Body Systems and Functions > 1. Interventions on the Nervous System and Mental Functions > AA - Brain and Cranial Nerves > AAA - Brain (Encephalon) > **AAA.AD.AA - Intracranial biopsy**. A green arrow points to this selected code. The main content area shows the details for AAA.AD.AA, including its target (AAA - Brain), action (AD - Biopsy), means (AA - Open approach), and ICHI descriptor (Intracranial biopsy). Two pop-up windows are overlaid on the right. The first pop-up, titled 'Action AD', shows the title 'Biopsy', definition 'Removing and directly examining tissue or biological element from the body', inclusion terms (Biopsy of choroid plexus, Biopsy of ventricles of brain, Open biopsy of brain, Open biopsy of brain via osteoplastic craniotomy), and exclusion terms (specimen collection (AH)). The second pop-up, titled 'Means AA', shows the title 'Open approach', definition 'Exposing the actual site of the intervention by incision of the skin or mucous membrane and any other underlying tissue.', and exclusion terms (Cutting per orifice (AC) e.g. tonsillectomy).

ICHI code	AAA.AD.AA
Target	AAA - Brain (Encephalon)
Action	AD - Biopsy
Means	AA - Open approach
ICHI descriptor	Intracranial biopsy
Definition	
Inclusion Terms	Biopsy of choroid plexus; Biopsy of ventricles of brain; Open biopsy of brain; Open biopsy of brain via osteoplastic craniotomy
Includes Notes	via: burr hole approach; osteoplastic flap
Code also	
Excludes Notes	

Action	AD
Title	Biopsy
Definition	Removing and directly examining tissue or biological element from the body
Incl	Biopsy by: •endoscopy •incision; •open operation; Percutaneous needle biopsy Punch biopsy Superficial smears
Excl	specimen collection (AH)
Code also	

Means	AA
Title	Open approach
Definition	Exposing the actual site of the intervention by incision of the skin or mucous membrane and any other underlying tissue.
Incl	Transmastoid
Excl	Cutting per orifice (AC) e.g. tonsillectomy

ICHI axlar – Target (ca 655)

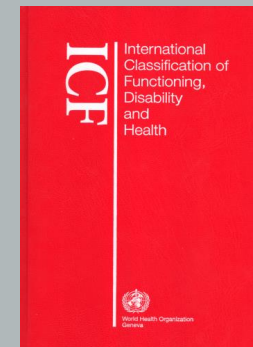
Kroppssystem och kroppsfunktion

- Anatomiska strukturer
- Kroppsfunktioner

Aktiviteter & Delaktighet

Omgivning

Hälsorelaterade beteende



ICHI axes – Action

Action (ca 110)

- 1. Diagnostic**
- 2. Therapeutic**
- 3. Managing**
- 4. Preventing**

The screenshot displays the ICHI Beta-2 2018 web interface. The top navigation bar is red with the ICHI logo, the version 'Beta-2 2018', a search bar, and a dropdown menu. Below the navigation bar, the main content area shows a breadcrumb trail 'ICHI Beta-2 2018' and a dropdown menu for 'Action'. The 'Action' dropdown is expanded, showing a hierarchical list of categories and sub-categories. The categories are numbered 1 through 6, and the sub-categories are letter-coded (AA through TM). The interface also includes a sidebar on the left with a menu icon and a search bar, and a table with columns for 'Action', 'Title', 'Definition', 'Includes', 'Excludes', and 'Code also'.

Action	Title	Definition	Includes	Excludes	Code also
1. Diagnostic					
2. Therapeutic					
3. Managing					
4. Preventing					
5. Action, other					
6. Action, unspecified					

- 1. Diagnostic
 - AA - Assessment
 - AB - Measurement
 - AC - Test
 - AD - Biopsy
 - AE - Inspection
 - AF - Mapping
 - AH - Specimen collection
 - AI - Monitoring
 - AM - Observation
 - AN - Interview
 - BA - (Diagnostic) Image
- 2. Therapeutic
 - DA - Alimentation
 - DB - Application [of pharmaceuticals]
 - DC - Anaesthesia
 - DD - Oxygenation
 - DE - Ventilation
 - DF - Perfusion
 - DG - Transfusion
 - DH - Fertilisation
 - DK - Application of dressings
 - DL - Insertion [of assistive devices]
 - DM - Installation of assistive devices
 - DN - Implantation [of intra-uterine devices]
 - FA - Incision
 - FB - Division
 - FC - Release
 - GA - Destruction
 - JA - Irrigation
 - JB - Drainage
 - JC - Dialysis
 - JD - Removal (of internal organs)
 - JE - Extraction
- 3. Managing
 - TA - Advocacy
 - TB - Planning
 - TC - Navigating
 - TD - Collaborating
 - TE - Detoxification (services)
 - TH - Post mortem care
 - TI - Prescription
 - TJ - Transport
 - TK - Public facilities or infrastructure development
 - TM - Environment modification
- 4. Preventing
- 5. Action, other
- 6. Action, unspecified

ICHI axes – Means

Means (ca 40)

- 1. Approach**
- 2. Technique**
- 3. Method**
- 4. Sample**

The screenshot shows the ICHI Beta-2 2018 website interface. At the top, there is a red header with 'ICHI Beta-2 2018', a search bar, and a dropdown menu. Below the header, a navigation bar contains 'Means' and a dropdown arrow. A sidebar on the left lists the ICHI axes: 1. Approach, 2. Technique, 3. Method, 4. Sample, and 5. Unspecified. Under '1. Approach', a list of codes is shown: AA - Open approach, AB - Percutaneous endoscopic, AC - Per Orifice, AD - Per orifice e, AE - Percutaneo, AF - Percutaneo, AG - Transpariet, AH - External, AI - Combined a, AJ - Combined a, AK - Combined a, and AZ - Unspecified. The main content area shows a red header with 'Comments', 'Tools', 'Info', and 'Ann-Helene Almborg'. Below this, a tab labeled 'AB Means' is active, and a table displays the details for 'AB - Percutaneous endoscopic'.

Means	AB
Title	Percutaneous endoscopic
Definition	Endoscopic access, by puncture or minor incision, through the skin and any other body layers necessary to access the site of the intervention.
Includes	Arthroscopic; Intraoperative endoscopy; Laparoscopic; That with imaging assistance; Transparietal endoscopic
Excludes	Endoscopic per orifice (AD)

Extension codes (optional) – for detail

Extension codes limit the detail needed in ICHI stem codes similar to ICD-11 post coordination

Quantifiers – e.g. number of performed interventions,

Additional descriptive information – e.g. r

Topology – e.g. laterality, measurement, relational (dist

Telehealth

Diagnostic tests

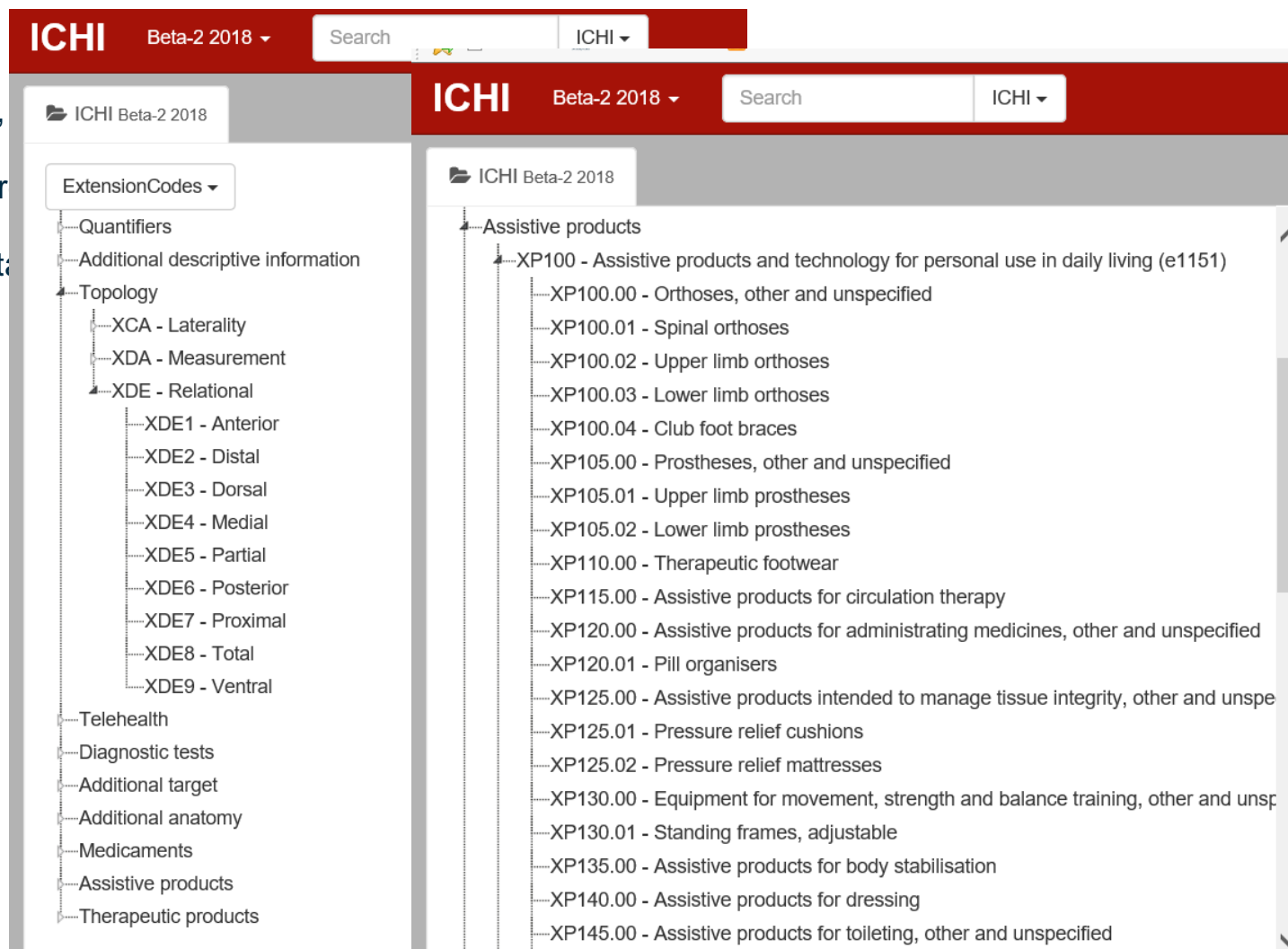
Additional target

Additional anatomy (from ICD-11)

Medications (from ICD-11)

Assistive products

Therapeutic products



The image shows two side-by-side screenshots of the ICHI Beta-2 2018 web interface. The left screenshot displays a tree view of extension codes under the heading 'ExtensionCodes'. The tree structure is as follows:

- ExtensionCodes
 - Quantifiers
 - Additional descriptive information
 - Topology
 - XCA - Laterality
 - XDA - Measurement
 - XDE - Relational
 - XDE1 - Anterior
 - XDE2 - Distal
 - XDE3 - Dorsal
 - XDE4 - Medial
 - XDE5 - Partial
 - XDE6 - Posterior
 - XDE7 - Proximal
 - XDE8 - Total
 - XDE9 - Ventral
 - Telehealth
 - Diagnostic tests
 - Additional target
 - Additional anatomy
 - Medicaments
 - Assistive products
 - Therapeutic products

The right screenshot shows a list of assistive products under the heading 'Assistive products'. The list includes:

- XP100 - Assistive products and technology for personal use in daily living (e1151)
 - XP100.00 - Orthoses, other and unspecified
 - XP100.01 - Spinal orthoses
 - XP100.02 - Upper limb orthoses
 - XP100.03 - Lower limb orthoses
 - XP100.04 - Club foot braces
 - XP105.00 - Prostheses, other and unspecified
 - XP105.01 - Upper limb prostheses
 - XP105.02 - Lower limb prostheses
 - XP110.00 - Therapeutic footwear
 - XP115.00 - Assistive products for circulation therapy
 - XP120.00 - Assistive products for administering medicines, other and unspecified
 - XP120.01 - Pill organisers
 - XP125.00 - Assistive products intended to manage tissue integrity, other and unspecified
 - XP125.01 - Pressure relief cushions
 - XP125.02 - Pressure relief mattresses
 - XP130.00 - Equipment for movement, strength and balance training, other and unspecified
 - XP130.01 - Standing frames, adjustable
 - XP135.00 - Assistive products for body stabilisation
 - XP140.00 - Assistive products for dressing
 - XP145.00 - Assistive products for toileting, other and unspecified

ICHI Organising Principle

“What is done to what target, and how”

Professional neutral

ICHI does not include:

- The health condition or human functioning that are the **reason(s)** for the intervention (use ICD or ICF)
- The **provider** of the intervention (ambulatory care...)
- The **setting** of the intervention
- The **outcome** of the intervention (ICD or ICF)

Combining codes - Syntax used in ICHI

- ICHI stem code & extension code(s)
- Interventions performed together:
 - Intervention 1 / Intervention 2
- Packages of interventions
 - Intervention 1 + Intervention 2

Nordic WHO-FIC Collaborating Centre

- **Utvecklat mappningsregler**
 - Methods and rules when mapping various Classifications of Procedures to ICHI¹
- **Mappning av KVÅ (NCSP+) till ICHI (Sverige)²**
 - Kirurgiska åtgärder
 - Medicinska åtgärder
 - 50 mest frekventa i PAR – slutenvård
- **Mappning av arbetsterapeutiska åtgärder inom psykiatri (Sverige)³**
- **Mappning av sjukgymnastiska åtgärder och de 20-30 mest frekventa använda – slutenvård (Island)**

¹Almborg A-H, Vikdal M, Berg L (2017). Methods and rules when mapping various Classifications of Procedures to ICHI. Poster C603. WHO-FIC Network Annual Meeting 2017, Mexico City, Mexico

²Almborg A-H, Dahlgren R, Berg L. (2018). Mapping Swedish surgical and functioning interventions to ICHI. Poster ID 603. WHO-FIC Annual meeting 2018, Seoul Korea

³Almborg A-H, Haglund L (2018). Mapping Swedish mental health interventions to ICHI – occupational therapy perspective. Poster ID 604 WHO-FIC Annual meeting 2018, Seoul Korea

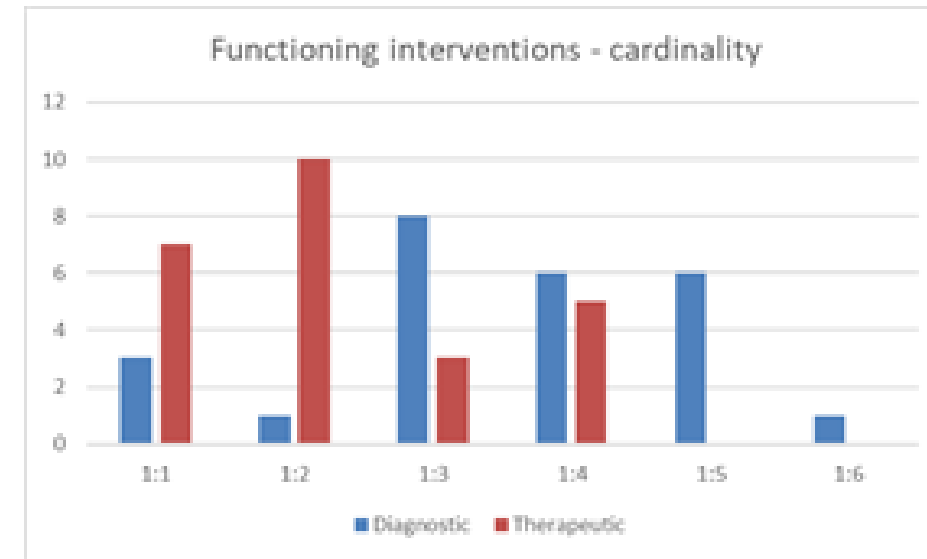
Mappning KVÅ till ICHI

Mapping Swedish surgical and functioning interventions to ICHI

- Two subsets of interventions (50 orthopaedic surgical interventions and 50 functioning interventions) were mapped to ICHI
- **Orthopaedic surgical interventions** (50 interventions)
- Equivalent 16%, Narrower 48%, Broader 34%; None 2%
- Cardinality of maps - 1:1 (68%), 1:2 (20%), 1:3 (10%)

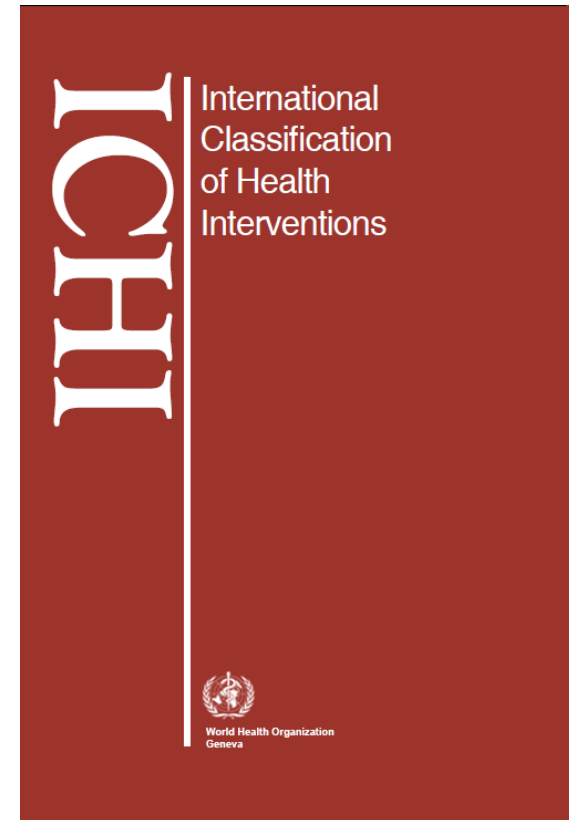
- **Functioning interventions** (50 interventions)
- Equivalent 10%; Narrower 2%; Broader 88%;
- Cardinality of maps - 1:1 (20%), 1:2 (22%), 1:3 (22%), 1:4 (22%), 1:5 (12%), 1:6 (2%)
- The diagnostic functioning interventions have higher cardinality than the therapeutic interventions.

There is possibilities to add national extension codes to cover the gaps for additional information.



Completing ICHI

- ICHI Phase 2 tests
 - June – July 2019
- Pre Final Version Development
 - June – October 2019
- Release for implementation
 - October 2019 – June 2020

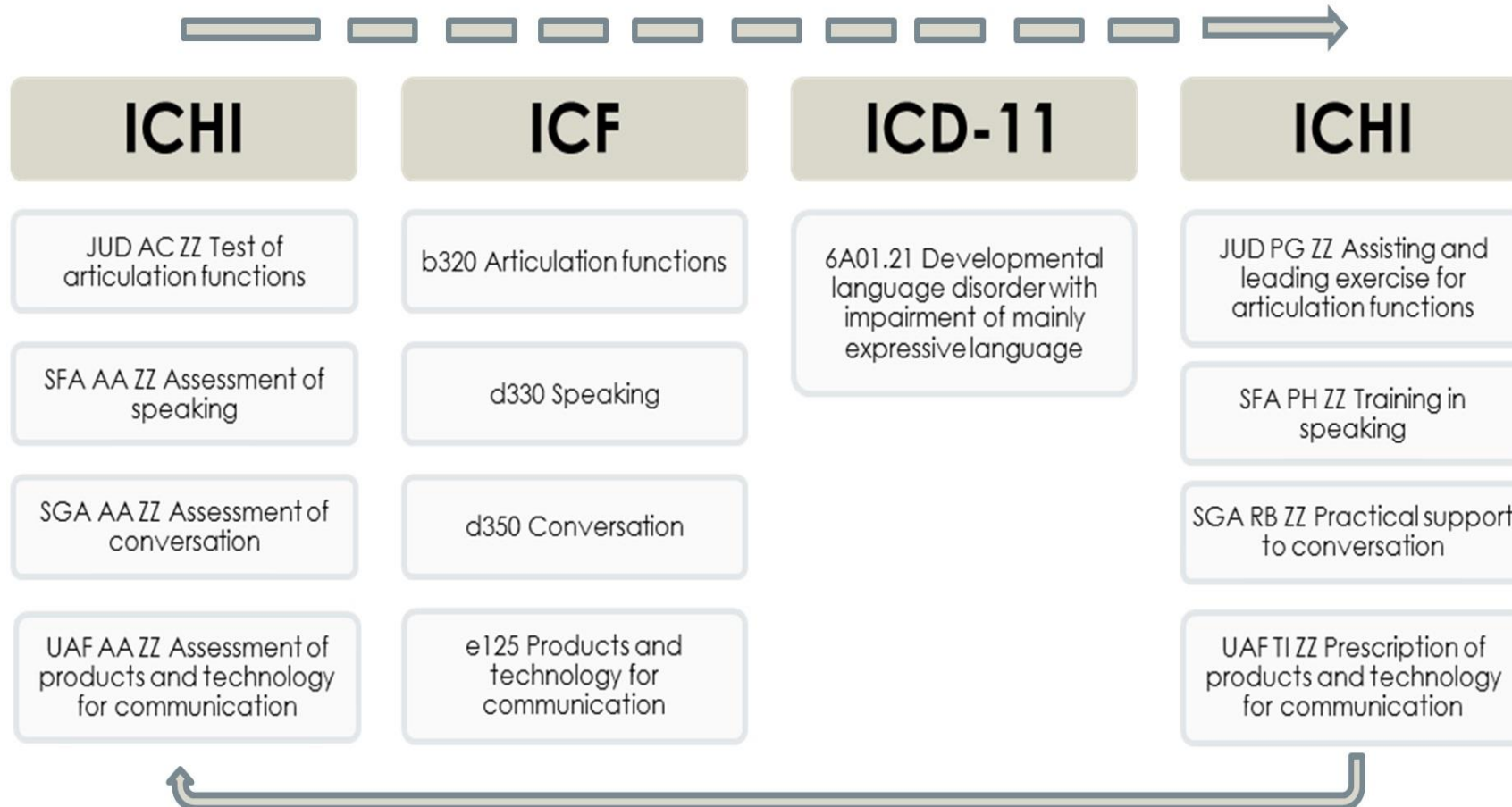


Completing ICHI – Phase 2 tests

- WHO plans formal tests (Phase 2 tests) through WHO-FIC Collaborating Centres in 2019
 - Electronic testing tool adapted from ICD-11 testing (ICHI-FiT)
 - Four lists:
 - Medical and surgical interventions
 - Functioning interventions
 - Primary care interventions
 - Public health interventions
 - Educational material and Training Manual will be available

Using the three WHO classifications together

Example of coding for interventions, level of functioning, functioning goals and diagnosis relevant to a person with communication-related functioning limitations.





Mer om klassifikationer

<http://www.socialstyrelsen.se/klassificeringochkoder/>

Mer om ICHI

<http://www.who.int/classifications/ichi/en/>

<http://mitel.dimi.uniud.it/ichi/>