Socialstyrelsen

WHO Collaborating Centre for the Family of International Classifications in the Nordic Countries

Nordic Centre for Classifications in Health Care

International Classification of Health Interventions (ICHI)

Ann-Helene Almborg
Klassifikationer och terminologi
Avdelningen för statistik och jämförelser

WHO Family of Classifications

- International Classification of Diseases – ICD-10
  - Internationell statistisk klassifikation av sjukdomar och hälsoproblem (ICD-10- SE)
- International Classification of Functioning, Disability and Health – ICF
  - Internationell klassifikation av funktionstillstånd, funktionshinder och hälsa (ICF)
- International Classification of Interventions – ICHI *(under utveckling)*

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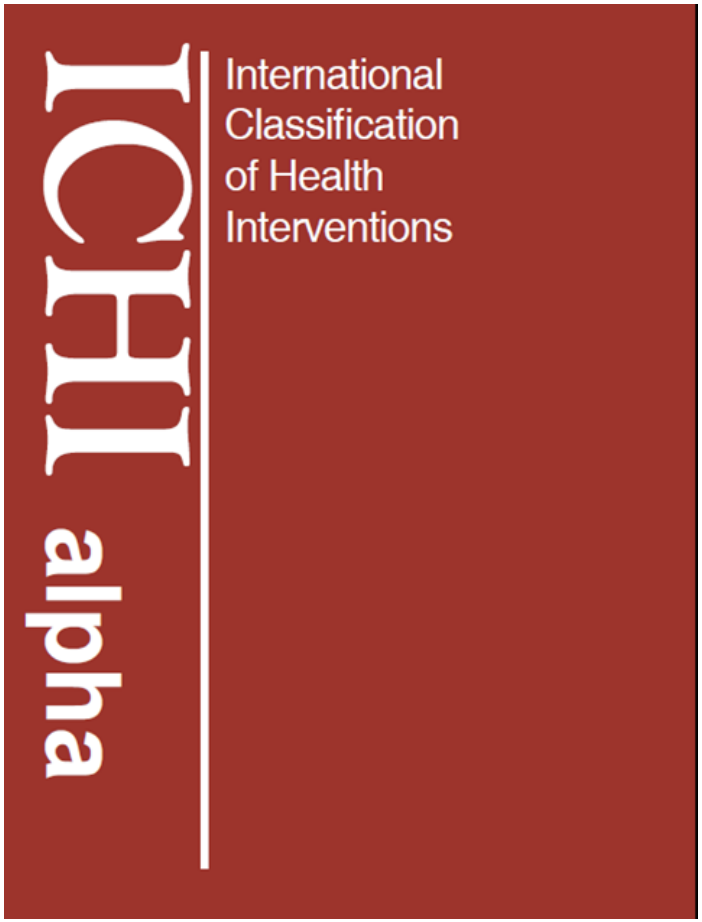
Background

- 1978: WHO International Classification of Procedures in Medicine (ICPM)
- Many national classifications developed: U.S., Australia, France, Canada, Germany, Nordic countries…
- Limited coverage of allied health, functioning, public health



ICHI journey: 2007 to 2019

2007: No useable international classification

- Proliferation of national classifications
- National classifications: Medical/surgical focus
- Many countries without a classification
- International comparisons difficult

2019: WHO approved ICHI

- Broad based
- Concepts consistent with ICF in particular
- To be used with ICD, ICF

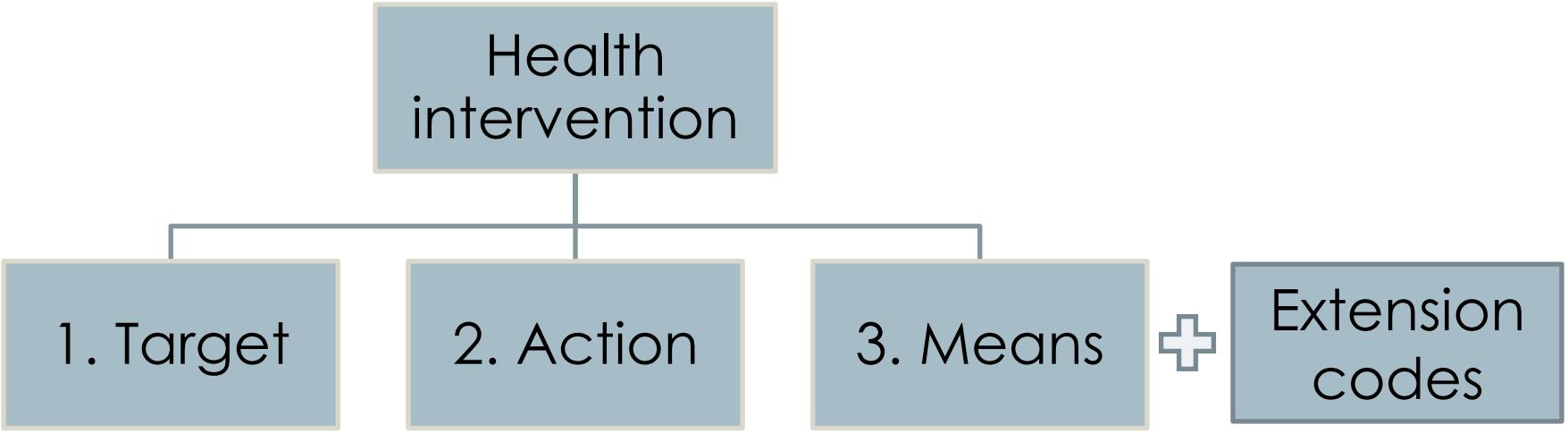
- Definition of health intervention

- 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

Use cases for ICHI

1. International comparisons
2. National use of ICHI
3. Sustainable Development Goals
4. Universal Health Coverage (WHO)
5. Patient safety and quality
6. Health System Performance (incl casemix)

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 Organising Principle

"What is done to what target, and how"

Professional neutral

ICHI does <u>not</u> 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)

ICHI axes – Target (n ≈ 636)

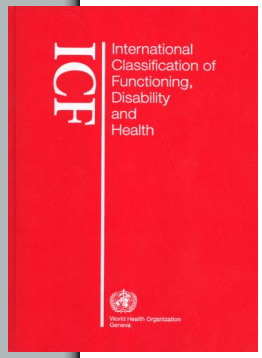
Body Systems and functions

- Anatomical structures 314
- Body functions 106

Activities & Participation 111

Environment & Health-related behaviours

- Environmental factors 76
- Health-related Behaviours 29



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ICHI axes – Action (n ≈ 115)

1. **Diagnostic** (14)

   Bedömning, observation, biopsi, mätning, test, inspektion…….

2. **Therapeutic** (75)

   Perfusion, dränage, implantat, dialys, incision, excision (lokal, partiell, total), amputation, manipulation, mobilisering, akupunktur, stimulering, psykoterapi, utbildning, rådgivning, färdighetsträning, praktiskt stöd, emotionellt stöd……

3. **Managing** (11)

   Planering, samarbete, förskrivning/ ordination….

4. **Preventing** (13)

   Förbättra tillgång till service (hälsa), infektionskontroll, restriktioner av försäljning och distribution av produkter…..

ICHI axes – Means (n ≈ 57)

1. **Approach**

   Öppen, perkutan, endoskopi....

2. **Technique**

   Röntgen med kontrast, magnetröntgen, ultraljud, teknik för muskelstyrka, uthållighet, rörlighet .....

3. **Method**

   Ergonomiska principer, informationskampanj, stimulering av sinnena, informationsteknik...

3. **Sample**

   Blod, urin, saliv, avföring.....

Extension codes (optional)

- Quantifiers
- Additional descriptive information for interventions
- Topology
- System level at which intervention directed
- Behavioural preconditions
- Additional target
- Additional anatomy
- Medications
- Assistive products
- Therapeutic products

Examples of ICHI interventions (1)

Intracranial biopsy, AAA AD AA

AAA – Brain (Target)

AD – Biopsy (Action)

AA – Open approach (Means)

Inclusion terms:
Biopsy of choroid plexus;
Biopsy of ventricles of brain;
Open biopsy of brain;
Open biopsy of brain via osteoplastic craniotomy

Removal of foreign body from cornea, BBB JD AA

BBB – Cornea (Target)

JD – Removal (of internal foreign body) (Action)

AA – Open approach (Means)

Inclusion terms:
Incision of cornea for removal of foreign body;
Magnetic removal of embedded foreign body from cornea;
Removal of artificial implant from cornea;
Removal of implanted device from cornea

Examples of ICHI interventions (2)

Assisting and leading exercise for memory, AUB PG ZZ

AUB – Memory functions(Target)
PG – Assisting and leading exercise (Action)
ZZ – Other and unspecified means (Means)

Definition: Supporting or guiding exercise focusing on functions of registering and storing information and retrieving it as needed

Training in dressing, SME PH ZZ

SME – Dressing (Target)
PH – Training (Action)
ZZ – Other and unspecified means (Means)

Definition: Teaching, enhancing or developing skills to carry out the coordinated actions and tasks of putting on and taking off clothes and footwear in sequence and in keeping with climatic and social conditions through context-specific practice

Examples of ICHI interventions (3)

Advising about products and technology for personal use in daily living, UAB PN ZZ

UAB – Products and technology for personal use in daily living(Target)

PN – Advising (Action)

ZZ – Other and unspecified means (Means)

Definition: Providing advice about equipment, products and technologies used by people in daily activities, including those adapted or specially designed, located in, on or near the person using them to encourage a change of functioning, environment, attitude or behaviour in relation to health (or risks)

Providing peer support for alcohol use behaviours, VAA RD FA

VAA – Alcohol use behaviours (Target)

RD – Provision (Action)

FA – Peer support(Means)

Definition: Providing emotional, social and practical assistance regarding behaviour concerning patterns of alcohol consumption — given by a person/group who possesses experiential knowledge of specific behaviours or stressors relevant to the situation of the recipient

ICHI Alpha Content

Medical/Surgical

Base: ICD-9-CM, public domain, ICPM related

Systematic updating and expansion based on national classifications

Inclusion of mental health interventions

Major review in 2017 by WHO-FIC experts

Functioning

No appropriate starting base

ICF axes domains as base for Targets: Body Functions, Activities & Participation, Environmental Factors

Nursing interventions in ICNP have been mapped, and ICHI content expanded

Intensive review and development in since 2015

Public health

Starting point: WHO-CHOICE list of interventions

Boundary issues: health and health related

Review and comment by an increasing number of experts

Trials underway

ICHI Alpha 2016: ICHI Tabular List

1. **Interventions on Body Systems and Functions**

   12 chapters arranged by Body system; each includes interventions on Body functions

2. **Interventions on Activities and Participation Domains**

   9 chapters arranged by ICF Activity & Participation chapters

3. **Interventions to Improve the Environment and Health-related Behaviour**

   5 chapters on Interventions on the environment

   5 chapters on Interventions on health behaviours

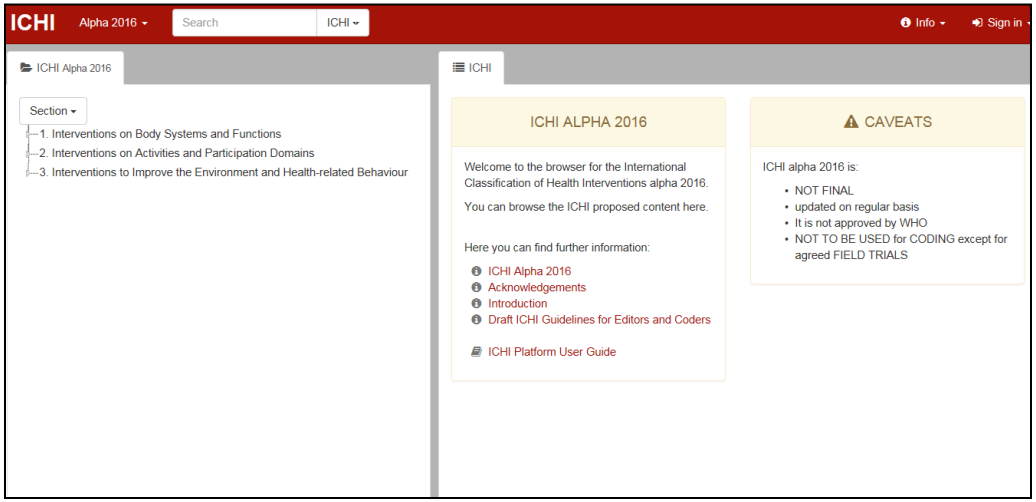
ICHI Alpha 2016 - 5800 interventioner

Interventions	number
Interventions on Body systems and functions	4205
Interventions on Activities & Participation Domains	871
Interventions to Improve the Environment and Health-related Behaviour	718

ICHI

- http://www.who.int/classifications/ichi/en/

- **ICHI Platform** http://mitel.dimi.uniud.it/ichi/
- ICHI Alpha 2016
- Introduction
- Draft ICHI Guidelines for Users
- ICHI Platform User guide



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ICHI Platform

ICHI | Alpha 2016 | Search | ICHI | Info | Sign in

ICHI Alpha 2016

- HB - Heart, ventricle
- HD - Heart valves
- HF - Endocardium, Pericardium, Myocardium
- HI - Coronary arteries and great vessels
- HT - Functions of heart and cardiovascular system, unspecified
- HZ - Heart, unspecified
- IA - Cerebral vessels
- IB - Vessels of head and neck
- IC - Vessels of upper limb
- ID - Vessels of thorax
- IE - Abdominal vessels
  - IEA BA BB - Angiography of abdominal or pelvic artery
  - IEA DB AF - Thrombolysis of abdominal or pelvic artery
  - IEA FA AA - Incision of abdominal or pelvic artery
  - IEA JE AA - Endarterectomy of abdominal or pelvic artery
  - IEA JJ AA - Excision of abdominal or pelvic artery
  - IEA LA AA - Surgical occlusion of abdominal or pelvic artery
  - IEA LG AF - Percutaneous transluminal angioplasty of abdominal or
  - IEA LH AF - Dilatation with insertion of stent or prosthesis of abdom
  - IEA LI AA - Intra-abdominal vascular shunt or bypass, open approac
  - IEA LI AF - Bypass, abdominal or pelvic artery, percutaneous transl

IEA JJ AA ICHI | Comments

ICHI code	**IEA JJ AA**
Target	IEA - Abdominal or pelvic artery
Action	JJ - Excision, partial
Means	AA - Open approach
ICHI descriptor	**Excision of abdominal or pelvic artery**
Definition	
Inclusion Terms	Excision of abdominal or pelvic artery with anastomosis
Includes Notes	celiac; gastric; hepatic; iliac; mesenteric; renal; splenic; umbilical
Codealso	
Excludes Notes	abdominal aorta (HIH JJ AA)

Towards 2019 completion of ICHI

June 2017	Complete systematic content review
Oct 2017	ICHI Beta
Late 2017 – early 2018	Review and tests
Mid 2018	Pre-final version

Later stages depend on WHO processes

Join in ICHI Development

- Review ICHI content and supporting material
- Develop a test of some material
- Join in 2017 ICHI meetings
- Plan how your country can use ICHI

ICHI Alpha 2016: http://mitel.dimi.uniud.it/ichi/

ICHI

- **ICHI Task Force Group**
- **ICHI Development team (Richard Madden)**
  - ICHI Functioning Technical Group
  - ICHI Medical/Surgical Technical Group
- **Family of Development Committe (FDC)**
- **Functioning Disability Reference Group (FDRG)**

- **WHO-FIC Collaborating Centres**

ICHI – används nu i Sverige

- **Regeringsuppdrag**
- **Klassifikation av socialtjänstens insatser och aktiviteter (KSI)**
- **Baserad på ICHI**
- **Publicerad 2015**
- **Användning i digital strukturerad dokumentation**
- **”den tysta kunskapen får ord”**

Socialstyrelsen

http://www.socialstyrelsen.se/klassificeringochkoder/ksi

Sammanfattningsvis

- ICHI ger en gemensam referensram att beskriva och benämna insatser/åtgärder
- Professionsneutral
- Kvalitetssäkring av ICHI Alpha 2016
  - Synpunkter från olika länder och specialiteter
- Beta – version för test 2017
- Världshälsoförsamlingen (World Health Assembly)
  - som godkänner klassifikationen
- Socialstyrelsen/regeringen ta ställning till om
  - ICHI ska användas i Sverige
  - ICHI – KVÅ

Mer om klassifikationer

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

Mer om ICHI

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

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

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ann-helene.almborg@socialstyrelsen.se