1. Orientation to International Classification of Functioning, Disability and Health (ICF) framework

2. Recommendations for alignment of ICF and Draft USCDI v3

3. Recommendations for using a similar approach of data elements in various data classes as used with Social Determinants of Health
The WHO Family of International Classifications and Terminologies includes:

- the International Statistical Classification of Diseases and Related Health Problems (ICD),
- the International Classification of Functioning, Disability, and Health (ICF),
- and the International Classification of Health Interventions (ICHI).

Source: https://www.who.int/standards/classifications
Clinical use of the ICF

Clinical test
- Current level of functioning
- Changes in functioning
- Focus of care

Assessment and Plan of Care

Documentation
- Problem list
- Goals

Individual’s satisfaction
- Patient centered language
ICF: Interaction of Concepts

Health Condition (disorder/disease)

Body functions & structures

Activities

Participation

Environmental Factors

Personal Factors

Figure 1: Interactions between the components of ICF
Source: WHO 2001:18
ICF: Interaction of Concepts

Functioning (Disability)

Health Condition (disorder/disease)

Body functions & structures (Impairment)

Activities (Limitation)

Participation (Restriction)

Environmental Factors

Personal Factors

Enabling Terms (Disabling Terms)

Contextual Factors

Figure 1: Interactions between the components of ICF
Source: WHO 2001:18
Components of ICF and Hierarchal Structure

**Body Functions:**
- physiological functions of body systems (including psychological functions).

**Body Structures:**
- anatomical parts of the body such as organs, limbs and their components.

**Activity:**
- execution of a task or action by an individual.

**Participation:**
- involvement in a life situation.

**Environmental Factors:**
- physical, social and attitudinal environment in which people live and conduct their lives.
Chapters in the International Classification of Functioning, Disability and Health (IFC)

<table>
<thead>
<tr>
<th>Body Function:</th>
<th>Activities and Participation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mental functions</td>
<td>Learning and applying knowledge</td>
</tr>
<tr>
<td>Sensory functions and pain</td>
<td>General tasks and demands</td>
</tr>
<tr>
<td>Voice and speech functions</td>
<td>Communication</td>
</tr>
<tr>
<td>Functions of the cardiovascular, haematological, immunological and respiratory systems</td>
<td></td>
</tr>
<tr>
<td>Functions of the digestive, metabolic, endocrine systems</td>
<td>Mobility</td>
</tr>
<tr>
<td>Genitourinary and reproductive functions</td>
<td>Self care</td>
</tr>
<tr>
<td>Neuromusculoskeletal and movement-related functions</td>
<td>Domestic life</td>
</tr>
<tr>
<td>Functions of the skin and related structures</td>
<td>Interpersonal interactions and relationships</td>
</tr>
<tr>
<td></td>
<td>Major life areas</td>
</tr>
<tr>
<td></td>
<td>Community, social and civic life</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Body Structure:</th>
<th>Environmental Factors:</th>
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</thead>
<tbody>
<tr>
<td>Structure of the nervous system</td>
<td>Products and technology</td>
</tr>
<tr>
<td>The eye, ear and related structures</td>
<td>Natural environment and human-made changes to environment</td>
</tr>
<tr>
<td>Structures involved in voice and speech</td>
<td>Support and relationships</td>
</tr>
<tr>
<td>Structure of the cardiovascular, immunological and respiratory Systems</td>
<td>Attitudes</td>
</tr>
<tr>
<td>Structures related to the digestive, metabolic and endocrine systems</td>
<td>Services, systems and policies</td>
</tr>
<tr>
<td>Structure related to genitourinary and reproductive systems</td>
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</tr>
<tr>
<td>Structure related to movement</td>
<td></td>
</tr>
<tr>
<td>Skin and related structures</td>
<td></td>
</tr>
</tbody>
</table>

CDC: THE ICF: AN OVERVIEW
https://www.cdc.gov/nchs/data/icd/icfoverview_finalforwho10sept.pdf

2/28/2022
Chapters of Activities and Participation Component

<table>
<thead>
<tr>
<th>Level</th>
<th>Example</th>
<th>Coding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter</td>
<td>Chapter 4: Mobility</td>
<td>d4</td>
</tr>
<tr>
<td>Second level</td>
<td>Walking</td>
<td>d450</td>
</tr>
<tr>
<td>Third level</td>
<td>Walking long distance</td>
<td>d4501</td>
</tr>
<tr>
<td>Fourth level</td>
<td>n/a</td>
<td></td>
</tr>
</tbody>
</table>

**Chapters:**

1. Learning and Applying Knowledge
2. General Task and Demands
3. Communication
4. Mobility
   - Changing and maintaining body position
   - Carrying, moving and handling objects
   - Walking and moving
     - 450. Walking
       - 4500. Walking short distance
       - 4501. Walking long distance
       - 4502. Walking on different surfaces
       - 4503. Walking around obstacles
   - 455. Moving Around
   - 460. Moving around in different locations
   - 465. Moving around using equipment
   - 469. Walking and moving, other specified and unspecified
   - Moving around using transportation
   - Mobility, other specified
   - Mobility, unspecified
ICF Framework

- ICF is used to operationally define a person’s health and health-related states
- Terms and construct are person-centric
- Used by the rehabilitation community
- Supported by payer and clinical community with multiple standard assessment tools (i.e., CMS: IRF-PAI, Patient-Reported Outcomes Measurement Information System (PROMIS), AM-PAC etc.)
- Supports both “Functioning” and “Disability”

Draft USCDI v3

Health Status

Health-related matter of interest, importance, or worry to a patient, patient’s family, or patient’s healthcare provider.

- Health Concerns
  - Functional Status
  - Disability Status
  - Mental Function
  - Pregnancy Status
  - Smoking Status

Functioning
- Mobility
- Self-care
- Mental Functions
Similarities for use of Hierarchal Structure

Social Determinants of Health

Functioning (Disability)

http://build.fhir.org/g/HL7/fhir-sdoh-clinicalcare/support_for_multiple_domains.html
Accessed 2/28/2022
Social Determinants of Health

Problems
Information about a condition, diagnosis, or other event, situation, issue, or clinical concept that is documented.
SDOH Problems/Health Concerns

Assessment and Plan of Treatment
Represents a health professional’s conclusions and working assumptions that will guide treatment of the patient.
SDOH Assessment

Goals
An expressed desired health state to be achieved by a subject of care (or family/group).
SDOH Goals

Functioning (Disability)

• Clinical Test
  • Provide reports (Structured and Unstructured) on how someone is Functioning

• Problems
  • Identify impairment, limitation/restriction on how someone is Functioning (Disability)

• Assessment and Plan of Treatment
  • Document leading causes of Disability and how to address

• Goals
  • Document patient-centered desired outcomes related to Functioning

http://rc.rcjournal.com/content/rcjournal/61/7/971/F2.large.jpg