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International Classification of Functioning and Disability

BETA-2 DRAFT
Short Version
JULY 1999

Assesment, Classification and Epidemiology Group
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IMPORTANT

This document is issued for field trial purposes. The classification is undergoing systematic field trials and is subject to further consultation. The final version is planned to be published in 2001.

Please note that the title of the classification has been changed from

ICIDH: International Classification of Impairments, Disabilities, and Handicaps

to

ICIDH-2: International Classification of Functioning and Disability

The rationale for these changes is further explained in the Introduction. Please let us have your comments and suggestions on any matter that arises in the Beta-2 draft. This draft can be found on: http://www.who.ch/icidh

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ICIDH-2 BETA-2 DRAFT

A. Introduction

1. Background

This volume contains ICIDH-2: *International Classification of Functioning and Disability.*[1] ICIDH-2[2] systematically groups functional states associated with health conditions (i.e. a disease, disorder, injury or trauma or other health-related state). The overall aim of the ICIDH-2 classification is to provide a unified and standard language and framework for the description of human functioning and disability as an important component of health. The classification covers any disturbance in terms of "functional states" associated with health conditions at body, individual and society levels. "Functioning" and "disability" are umbrella terms covering three dimensions: (1) body functions and structure; (2) activities at the individual level; and (3) participation in society.[3]

ICIDH-2 belongs to the "family" of classifications developed by the World Health Organization for application to various aspects of health. The WHO family of international classifications provides the language to code a wide range of information about health (e.g. diagnosis, functioning and disability, reasons for encounter) and uses a standardized common language permitting communication about health and health care across the world in various disciplines and sciences.

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[1] The text represents a revision of the International Classification of Impairments, Disabilities, and Handicaps (ICIDH), which was first published in 1980 by the World Health Organization for trial purposes. This Beta-2 Draft version will be subject to systematic field trials and further consultation until 2001 and will be finalized following the results of the field trials.

[2] Throughout this document the acronym ICIDH will be retained for historical reasons.

[3] These dimensions of health-related experience replace terms formerly used- "impairment", "disability" and "handicap" and extend their meanings to include positive experiences. The new terms are further defined in this Introduction and detailed within the classification. It is important to note that these terms are used with specific meanings that may differ from their everyday usage.

In WHO's international classifications, health conditions are classified mainly in ICD-10 (shorthand for International Classification of Diseases, Tenth Revision)[4] which represents an etiological framework. The functioning and disability associated with health conditions are classified in ICIDH-2. The ICD-10 and ICIDH-2 are therefore complementary[5] and users are encouraged to utilize these two members of the WHO family of international classifications together wherever applicable. ICD-10 provides a "diagnosis" and this information is enriched by the additional information given by ICIDH-2 on functioning at body, individual and society levels.[6] Together, information on diagnosis plus functioning provides a broader and more meaningful picture that describes the health status of people, which could be used for decision making purposes.

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[4] International Statistical Classification of Diseases and Related Health Problems, Tenth Revision, Vols. 1-3. Geneva, World Health Organization, 1992-1994.

[5] It is also important to recognize the overlap between ICD-10 and ICIDH-2. Both ICIDH-2 and ICD-10 begin with the body systems. Impairments refer to body structures and functions, which are usually parts of the "disease process" and therefore also used in the ICD system. Nevertheless, the ICD system uses impairments (as signs and symptoms) as parts of a constellation that forms a "disease" or sometimes uses them as reasons for contact with health services; whereas the ICIDH-2 system uses them as problems of body functions associated with health conditions.

[6] Two persons with the same disease can have different functional states, and two persons with the same functional state do not necessarily have the same disease. Hence, joint use enhances data quality. Use of ICIDH-2 should not bypass regular diagnostic procedures for medical purposes. In other uses, ICIDH-2 could be used alone.

2. Aims of ICIDH-2

ICIDH-2 is a multi-purpose classification designed to serve various disciplines and different sectors. Its specific aims can be summarized as follows:

- to provide a scientific basis for understanding and studying the functional states associated with health conditions ;[7]
- to establish a common language for describing functional states associated with health conditions in order to improve communications between health care workers, other sectors, and disabled people/people with disabilities;
- to permit comparison of data across countries, health care disciplines, services and time;
- to provide a systematic coding scheme for health information systems.

These aims are interrelated, since the need for and uses of ICIDH-2 require the construction of a meaningful and useful system that can be utilized by various users for health policy, quality assurance and outcome evaluation in different cultures.

2.1 Applications of ICIDH-2

Since first publication in 1980, ICIDH has been used for various purposes, for example:

- as a statistical tool – in the collection and recording of data (e.g. in population studies and surveys or in management information systems);
- as a research tool – to measure outcomes, quality of life or environmental factors;
- as a clinical tool – in needs assessment, matching treatments with specific conditions, vocational assessment, rehabilitation and outcome evaluation;

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[7] Disease and disability are distinct constructs, which can be viewed independently. Disease (e.g. measles, which has a specific etiological agent and pathogenesis) is one construct and disability – in the ICIDH-2 sense -- is another construct (e.g. skin rash, limitation of daily activities, or person not being allowed to go to school to prevent transmission). Disease and disability constructs may not always be in a predictable one-to-one relationship since each construct has independent features.

- as a social policy tool – in social security planning, compensation systems and policy design and implementation;
- as an educational tool – in curriculum design and to raise awareness and undertake social actions.

Although ICIDH-2 is inherently a health-related classification, it is also used by other sectors such as insurance, social security, labour, education, economics, social policy and general legislation development. Thus it has been accepted as one of the United Nations social classifications and is referred to in and incorporates *the Standard Rules on the Equalization of Opportunities for Persons with Disabilities.*[8] As such ICIDH-2 provides an appropriate instrument for the implementation of stated international human rights mandates as well as national legislation.

ICIDH-2 is used by a broad spectrum of users for different applications, for example social security, evaluation in managed health care, and population surveys at local, national and international levels. It offers a conceptual framework for information which is applicable to personal health care, including prevention, health promotion and the improvement of participation by removing or mitigating societal hindrances and encouraging the provision of social supports and facilitators. It is also useful for the study of health care systems, in terms of both evaluation and policy formulation.

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[8] Standard Rules on the Equalization of Opportunities for Persons with Disabilities, Adopted by the United Nations General Assembly at its 48th session on 20 December 1993 (resolution 48/96). New York, NY, United Nations Department of Public Information.

3. Properties of ICIDH-2

A classification should be clear about what it classifies: its universe, its scope, its unit of classification, its organization and how these elements are structured in terms of their relation to each other. The following sections explain these basic properties of ICIDH-2.

3.1 Universe of ICIDH-2

ICIDH-2 encompasses all aspects of human functioning and disability. These are functional states associated with health conditions. ICIDH-2 does not cover the functional states that are not health related, such as those brought about by socio-economic factors independent of health conditions. For example, people may be restricted in their participation because of their race, gender, religion or other socio-economic categories, but these are not health related restrictions of participation as classified in ICIDH-2.

There is a widely held misunderstanding that ICIDH-2 is only about people with disabilities; in fact, it is about all people. The functional states associated with all health conditions at body, individual or society level can be described using ICIDH-2. In other words, ICIDH-2 has universal application.[9]

3.2 Scope of ICIDH-2

ICIDH-2 provides a description of situations with regard to human functioning and disability and serves as a framework to organize information. It provides a structure to present this information in a meaningful, interrelated and easily accessible way.

ICIDH-2 organizes information according to three dimensions: (1) body level; (2) individual level; and (3) society level. These dimensions are named: Body functions and structure (B); Activities (A); and Participation (P) . These dimensions contain various domains of body functions and structure, performances of activities, and involvement in life situations. Briefly these dimensions cover the following areas:

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[9]Bickenbach JE, Chatterji S, Badley EM, Ustun TB (1999) Models of disablement, universalism and the ICIDH, *Social Science and Medicine*, 48:1173-1187.

The Body dimension comprises two classifications, one for functions of body systems, and one for the body structure. The chapters of both classifications are organized according to the body systems.

The Activities dimension covers the complete range of activities performed by an individual. The chapters are organised from simple to complex activities.

The Participation dimension classifies areas of life in which an individual is involved, has access to, has societal opportunities or barriers. The domains are organized from simple to complex areas.

A list of environmental factors forms part of the classification. Environmental factors have an impact on all three dimensions and are organized from the individual's most immediate environment to the general environment.

The term "dimension" refers to levels of functioning, whereas "domains" denotes categories in each dimension. The ICIDH-2 dimensions are conceived as having two poles: At one end they can be used to indicate problems (e.g. impairment, activity limitation or participation restriction); at the other end they can indicate non-problematic (i.e. neutral and positive) aspects of functional states. "Functioning" is used as an umbrella term for the positive or neutral aspects of dimensions at body, individual and society level. "Disability" is used as an umbrella term for the problems in these dimensions.

The dimensions are distinct but parallel classifications; thus the B, A, and P dimensions can be used alone or in an interrelated manner to arrive at a more comprehensive evaluation. To infer an activity limitation from one or more impairments, or a participation restriction from one or more activity limitations may often seem reasonable. However, it is important to collect data independently on these dimensions and thereafter explore associations and causal links between them.

Functioning and disability are conceived as a dynamic interaction[10] between health conditions and contextual factors. Contextual factors include both personal and environmental factors. ICIDH-2 includes a comprehensive scheme of environmental factors as an essential "component" of the classification. As a component, these factors interact at all three dimensions. Although personal factors are also involved, they are not classified in ICIDH-2 because of the large social and cultural variance associated with them.

3.3 Unit of classification

ICIDH-2 classifies functioning and disability from the perspective of an individual's life circumstances. The unit of classification is therefore the "domain" of functioning (the area where functioning or disability occurs). It is important to note, therefore, that in ICIDH–2 persons are not the units of classification; that is, ICIDH-2 does not classify people.

3.4 Presentation of ICIDH-2

The three dimensions and the environmental factors in ICIDH-2 are presented in two versions in order to meet the needs of different users for varying levels of detail.

The first version is a *short (concise) version* which gives two levels of categories for each dimension or component. The second version is a *long (detailed) version* which provides all levels of classification and allows for 9999 categories per component. The long-version categories can be aggregated into the short version when summary information is required.

[10] This interaction can be viewed as a process or a result depending on the user.

4. Definitions of dimensions

IN THE CONTEXT of a HEALTH CONDITION:

Body Functions are the physiological or psychological functions of body systems.

Body Structures are anatomic parts of the body such as organs, limbs and their components.

Impairments are problems in body function or structure such as a significant deviation or loss.

Activity is the performance of a task or action by an individual.

Activity Limitations are difficulties an individual may have in the performance of activities.

Participation is an individual's involvement in life situations in relation to Health Conditions, Body Functions and Structure, Activities, and Contextual factors.

Participation Restrictions are problems an individual may have in the manner or extent of involvement in life situations.

A basic overview of these concepts is given in Table 1 and explained further in operational terms in section 5.1. As the table indicates:

- ICIDH-2 has three dimensions: Body Functions and Structure, Activity, and Participation.
- Contextual Factors are an integral component of the classification and consist of Environmental Factors and Personal Factors.
- Each dimension or component can be expressed in terms of both positive and negative aspects.
- Each dimension identifies domains that are classification "categories". Functioning and disability are then recorded using qualifiers, which are numeric codes. The first qualifier for each dimension and component is a uniform one that specifies the extent or the magnitude of the functioning or disability in that category.
- The second qualifier is dimension-specific and is explained in the relevant sections of each dimension.

Table 1. Overview of components of ICIDH-2

	Body Functions & Structures	**Activities**	**Participation**	**Contextual Factors**[11]
Level of Functioning	Body *(body parts)*	Individual *(person as a whole)*	Society *(life situations)*	Environmental Factors *(external influence on functioning)* + Personal Factors *(internal influence on functioning)*
Characteristics	Body function Body structure	Performance of individual's activities	Involvement in life situations	Features of the physical, social, and attitudinal world + Attributes of the person
Positive aspect (Functioning)	Functional and structural integrity	Activity	Participation	Facilitators
Negative aspect (Disability)	Impairment	Activity limitation	Participation restriction	Barriers / hindrances
Qualifiers: First	*Uniform Qualifier: Extent or Magnitude*			
Second	Localization	Assistance	Subjective satisfaction (under development)	(under development)

[11] Contextual Factors are an essential component of the classification and interact with all three dimensions.

4.1. Body Functions and Structure and Impairments

Definitions: ***Body Functions*** *are the physiological or psychological functions of body systems.*

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

Impairments *are problems in body function or structure as a significant deviation or loss.*

(1) Body functions and body structures are classified in two different sections. These two classifications are designed to be parallel. For example, body functions include basic human senses such as "seeing functions" and their structural correlates exist in the form of "eye and related structures".

(2) "Body" refers to the human organism as a whole; hence it includes the brain and its functions, i.e. the mind. Therefore mental (or psychological) functions are subsumed under body functions.

(3) Body functions and structure are classified along body systems; accordingly body structures are not considered as organs.[12]

(4) Impairments of structure can involve an anomaly, defect, loss or other significant deviation in body structures. Impairments have been conceptualized in congruence with biological knowledge at the level of tissues or cells and at the subcellular or molecular level. However, for practical reasons these levels are not listed.[13] The biological foundations of impairments have guided the classification and there may be room for expanding the classification at cellular or molecular level. For medical users, it should be noted that impairments are not the same as the underlying pathology, but are the manifestations of that pathology.

(5) Impairments represent a deviation from certain generally accepted population standards in the biomedical status of the body and its functions, and definition of their constituents is undertaken primarily by those qualified to judge physical and mental functioning according to these standards.

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[12] Although organ level was mentioned in the 1980 version of ICIDH, the definition of an "organ" is not clear. The eye and ear are traditionally considered as organs; however, it is difficult to identify and define the boundaries of extremities and internal organs. Instead of an approach by "organ", which implies the existence of an entity or unit within the body, ICIDH-2 replaces this term with "body structure".

[13] Impairments should be detectable or noticeable by others or the person by direct observation or by inference from observation.

(6) Impairments can be temporary or permanent; progressive, regressive or static; intermittent or continuous. The deviation from the norm may be slight or severe and may fluctuate over time. These characteristics are captured in further descriptions, mainly in the codes, by means of qualifiers after the decimal point.

(7) Impairment is not contingent on etiology or how the state is developed; for example, loss of vision or a limb may arise from a genetic abnormality or an injury. The presence of an impairment necessarily implies a cause; however, the cause may not be sufficient to explain the resulting impairment. Also, when there is an impairment, there is a dysfunction in the body functions, but this may be related to any of the various diseases, disorders or physiological states.

(8) Impairment is part of a health condition, but does not necessarily indicate that a disease is present or that the individual should be regarded as sick.

(9) Impairments are broader and more inclusive in scope than disorders or diseases; for example, the loss of a leg is an impairment of body structure, but not a disorder or a disease.

(10) Impairments may result in other impairments.

(11) Some categories of the body functions and structure and the ICD-10 categories seem to overlap, particularly with regard to symptoms and signs. However, the purposes of the two classifications are different. ICD-10 classifies symptoms in a special chapter to document morbidity or service utilization, whereas ICIDH-2 shows them as part of the body functions. These may be used for prevention or identifying patients' needs. Most importantly, in ICIDH-2 the Body Functions and Structure classification is intended to be used along with the Activity and Participation categories.

(12) Impairments are classified in categories using defined identification criteria (e.g. as present or absent according to a threshold level). These criteria are the same for functions and structure. They are: (a) loss or lack; (b) reduction; (c) addition or excess; and (d) deviation. Once an impairment is present, it may be scaled in terms of its severity using the uniform qualifier.

4.2 Activity/Activity Limitations

Definition: ***Activity*** *is the performance of a task or action by an individual.*

Activity Limitations *are difficulties an individual may have in the performance of activities.*

(1) The Activity (A) dimension deals with an individual's activities associated with all aspects of human life; i.e. activities represent the integrated use of body functions, often in a purposeful manner, as performed in life tasks by the individual. In short, activity is what an individual does.

(2) The A dimension gives a profile of an individual's functioning in terms of activities, from simple to complex ones (e.g. walking, obtaining food, or performing multiple tasks).

(3) The A classification is a neutral list of activities. It can be used to denote "activity limitations" (formerly "disabilities" in ICIDH 1980) using qualifiers. Activity is limited when the individual, in the context of a health condition, either has difficulty performing the activity in an expected manner, or cannot perform it at all. The activity classification could also be used to record positive or neutral performance, as for example in performance assessments.

(4) The A dimension deals with the actual performance of the individual; it does not refer to an aptitude, potential, capacity or what an individual might do. Performance means the execution of a task or activity. A key feature of the Activity code is that the actual limitation of performance is observed. Activity involves the performance of actions and task that are reportable and observable, either directly or indirectly.

(5) Difficulties with activities can arise when there is a qualitative or quantitative alteration in the way in which these activities are carried out. Activity limitations are assessed against a generally accepted population standard, relative to cultural and social expectations.

(6) The use of assistive devices or personal assistance does not eliminate the impairment but may remove limitations on activity in specific domains, whereas without the assistive devices, the individual's activity would be limited. Moreover, an individual with an impairment that affects normal activities (e.g. eating) may perform the required activity in an alternative manner (e.g. by means of tube feeding). The use of the first (uniform) and the second qualifiers will provide information on whether an activity was performed, with or without assistive device or personal assistance.

(7) Some body functions (B) and basic activities (A) can be viewed at both body level and individual level. At the body level, they can be seen as complex body functions; at the individual level, however, they are more accurately seen as basic activities (e.g. higher-level cognitive function of organization and planning is a body function, but planning daily routine is an individual level activity).

(8) The Activity dimension refers to the performance of activities by an individual. The (A) dimension addresses the question "how does an individual actually do the activity?". This differs from the Participation (P) dimension in that participation addresses involvement of the individual in a life area and in particular whether or not that involvement is restricted or facilitated by environmental factors. Activity Limitation denotes simply an individual level performance. For example, attending school is something a child does, so it is an *activity*; being allowed to attend and being included in all school activities, however, is a matter of *participation*.

(9) The A dimension can be used in clinical assessment, functional tests, questionnaires or self-evaluation. Activity can be assessed in many contexts: personal, professional, behavioural, social policy, legal and others.

4.3 Participation / Participation Restrictions

Definition: ***Participation*** *is an individual's involvement in life situations in relation to Health Conditions, Body Functions and Structures, Activities, and Contextual factors.*

Participation Restrictions *are problems an individual may have in the manner or extent of involvement in life situations.*

(1) The Participation (P) dimension codes societal circumstances regarding functioning of an individual in various life areas. It denotes the individual's degree of involvement, including society's response to the individual's level of functioning. That response may be either to facilitate or to hinder participation in various domains. Involvement refers to the lived experience of people in the actual context in which they live. This context includes the environmental factors – all aspects of the physical, social and attitudinal world.

(2) Participation may be characterized as the outcome or result of a complex relationship between an individual's health condition and personal factors, and of the external factors that represent the circumstances in which the individual lives. Because of this relationship, different environments may have a very different impact on the same individual with impairments or activity limitations. An environment with barriers, or without facilitators, will restrict participation; other environments that are more facilitating may increase participation. Society hinders participation because either it creates barriers (e.g. inaccessible buildings) or it does not provide facilitators (e.g. unavailable assistive devices).

(3) A restriction in participation can result directly from the social environment, even when the individual has no impairment or activity limitation. For example, an individual who is HIV- positive without any symptoms or disease, or someone with a genetic predisposition to a certain disease may exhibit no impairments or activity limitations, yet may be denied access to services or be stigmatized because of social attitudes.

(4) Participation is involvement in life situations. Involvement may mean being included or engaged in an area of life, being accepted, or having

access to needed resources A second qualifier for these life areas is being developed to describe the subjective aspects of this dimension such as satisfaction, fulfilment and enjoyment.

(5) Participation differs from the Activity dimension in that the core effect of the contextual factors involved in participation is at societal level. Participation answers the question "What is the lived experience of involvement of the individual with the health condition in societal context?" This question leads to two other questions; (a) How does the individual, given his or her health condition and functional status, become engaged in and take part in various life domains?; and (b) Do environmental factors facilitate or hinder the involvement of the individual in that particular domain? Identification of barriers and facilitators will assist in the development of interventions that aim at removing barriers or providing facilitators.

(6) The differentiation between Activity and Participation is determined by the core definitions of these dimensions and not by the complexity of the function in question. For example, an individual may experience both activity limitations and participation restrictions in similar domains (e.g. mobility, interpersonal relations, or employment). The Activity code denotes the limitations in performance of that particular activity by that individual (describing merely whether the individual performs the particular activities). By contrast, the Participation code denotes the restrictions in participation resulting from the external factors, acting either as external hindrances or as lack of facilitation.

(7) The standard or norm against which an individual's participation is compared is that of an individual without disability in that particular society. The participation restriction records the discordance between the observed participation and the expected participation of an individual without a similar health condition.

(8) A value is attached to restriction of participation (i.e. a participation restriction is a disadvantage). This value is dependent on cultural norms, so that an individual can be disadvantaged in one group or location and not in another place. As used in ICIDH-2, the notion of participation incorporates

as an overarching, international standard that of the "equalization of opportunities" for persons with disabilities as formally adopted by the United Nations in its Standard Rules on the Equalization of Opportunities for Persons with Disabilities (see footnote 8).

(9) "Handicap", as formerly used, focused on seven scales which were defined as the most important groups of disadvantageous experience. It gave a summary measure of one's disadvantage in relation to peers in accordance with the norms of society. The structure of the P dimension has evolved further to a "nominal" classification instead of summarizing only the most important domains. The new classification identifies the domains of societal involvement of the individual.

(10) On the participation issue, individuals may be limited in terms of their access because of reasons other than health context (for example, religion, ethnic origin, social caste or class). The participation codes may equally be applied to these circumstances. However, the ICIDH-2 Participation dimension deals chiefly with the health context, reflecting the WHO Constitution's broad conception of health as a fundamental human right - "a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity".

4.4 Contextual Factors

Contextual Factors represent the complete background of an individual's life and living. They include environmental factors and personal factors that may have an impact on the individual with a health condition and that individual's functional state.

Environmental Factors make up the physical, social and attitudinal environment in which people live and conduct their lives. The factors are external to individuals and can have a positive or negative influence on the individual's participation as a member of society, on performance of activities of the individual or on the individual's body function or structure.

(1) Environmental Factors are organized in the classification to focus on three different levels:

a. Individual – in immediate personal environment of the individual, including but not limited to settings such as home, workplace and school. Includes the physical and material features of the environment that an individual comes face to face with as well as direct personal contact with others such as family, acquaintances, peers, and strangers.

b. Services – formal and informal social structures and services in the community or local setting, that have an impact on individuals in their specific setting. Includes organizations and services related to the work environment, community activities, government agencies, communication and transportation services, and informal social networks.

c. Systems – the overarching approaches and systems established in a culture or subculture that set the pattern for the concrete individual and services levels. Includes laws, regulations and formal rules as well as informal rules and attitudes and ideologies.

(2) Environmental Factors interact with all dimensions of functioning and disability, namely Body Functions and Structure, Activity and Participation. At each level the nature and extent of interaction may be elaborated by future scientific work.

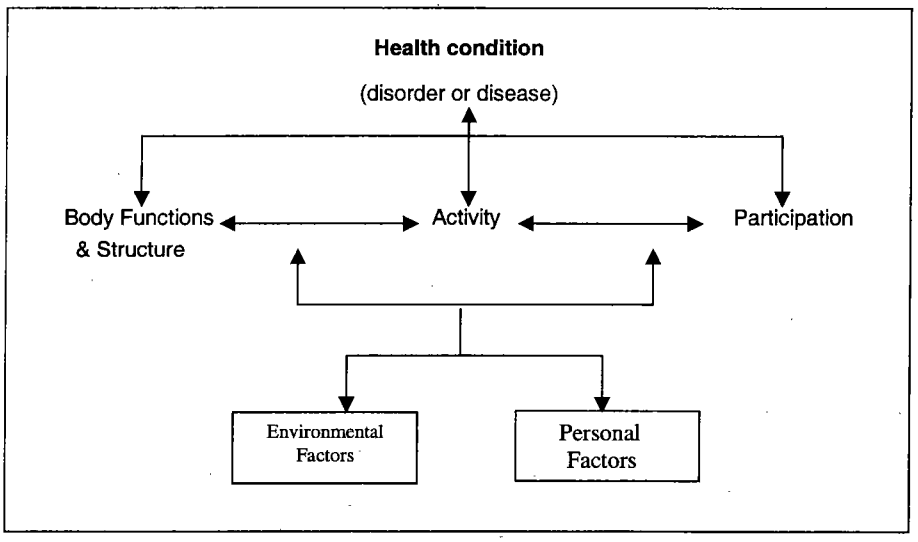
Personal Factors are the individual background of an individual's life and living, composed of features of the individual that are not part of a health condition or functional state. These may include age, race, gender, educational background, experiences, personality and character style, aptitudes, other health conditions, fitness, lifestyle, habits, upbringing, coping styles, social background, profession and past and current experience. Personal factors are not classified in ICIDH-2. However, they are included in Figure 1 to show their contribution, which may have an impact on the outcome of various interventions.

5. Model of Functioning and Disability

5.1 Process of Functioning and Disability

As a classification, ICIDH-2 does not model the process of functioning and disability. However, it can be used to describe the process by providing the means to map the different dimensions and domains. ICIDH-2 provides a multi-perspective approach to the classification of functioning and disability as an interactive and evolutionary process. It provides the "building blocks" for users who wish to create models and study different aspects of this process. ICIDH-2 is a language: the texts that can be created with it depend on the users, their creativity and their scientific orientation. In order to better visualize the current understanding of interaction of various components the diagram presented in Figure 1 may be helpful.[14]

Figure 1: Current understanding of interactions between the dimensions of ICIDH-2



[14] ICIDH-2 differs substantially from ICIDH 1980 in the depiction of the interrelations between dimensions of functioning and disability. It should be noted that any diagram is likely to be incomplete and prone to misrepresentation because of the complexity of interactions in a multidimensional model. The model is drawn to illustrate the multiple interactions. Other depictions indicating other important foci in the process are certainly possible. Interpretation of interactions between different components and dimensions may also vary (e.g. the impact of environmental factors on body functions certainly differs from their impact on participation).

According to this diagram:

- Functioning and disability are seen as an interaction or complex relationship between the health condition and the contextual factors (i.e. environmental and personal factors). There is a dynamic interaction among these factors: interventions at one element level have the potential to modify other related elements. The interactions are specific and not always in a predictable one-to-one relationship to each other. The dimensions refer to an individual's state of functioning and disability.
- The interaction works in two directions; even the presence of a disability may modify the health condition itself. One may :
    - have impairments without having activity limitations (e.g. a disfigurement in leprosy may have no activity limitations);
    - have activity limitations without evident impairments (e.g. poor performance in daily activities associated with many diseases);
    - have participation problems without impairments or activity limitations (e.g. an HIV-positive individual, or an ex-patient recovered from mental illness facing stigma);
    - have activity limitations with no participation problem (e.g. an individual with mobility limitations may be provided by society with alternative ways of moving around to participate in important life situations);
    - experience a degree of influence in a reverse direction (e.g. inactivity of limbs can cause muscle atrophy; institutionalization may result in loss of social skills).
- The scheme shown in Figure 1 demonstrates the potential role that contextual factors play in the process. These factors interact with the individual with a health condition and determine the level and extent of the individual's functioning. Environmental factors are extrinsic to (outside of) the individual (e.g. the attitudes of the society, architectural characteristics, the legal system) and are classified in the classification. Personal factors, on the other hand, are not classified in the current version of ICIDH-2. Their assessment is left to the user, if needed. They may include: gender, age, other health conditions, fitness, lifestyle, habits, upbringing, coping styles, social background, education, profession, past and current experience (past life events and concurrent events),

overall behaviour pattern and character style, individual psychological assets and other characteristics, all or any of which may play a role in disability at any level.

5.2 Medical and social models

A variety of conceptual models[15] has been proposed to understand and explain disability and functioning. These may be expressed in a dialectic of "medical model" versus "social model". The *medical model* views disability as a personal problem, directly caused by disease, trauma or other health condition, which requires medical care provided in the form of individual treatment by professionals. Management of the disability is aimed at cure or the individual's adjustment and behaviour change. Medical care is viewed as the main issue, and at the political level the principal response is that of modifying or reforming health care policy . The *social model* of disability, on the other hand, sees the issue mainly as a socially created problem, and principally as a matter of the full integration of individuals into society. Disability is not an attribute of an individual, but rather a complex collection of conditions, many of which are created by the social environment. Hence the management of the problem requires social action, and it is the collective responsibility of society at large to make the environmental modifications necessary for the full participation of people with disabilities in all areas of social life. The issue is therefore an attitudinal or ideological one requiring social change, which at political level becomes a question of human rights. Disability becomes, in short, a political issue.

ICIDH-2 is based on an integration of these two extreme models. In order to capture the integration of the various dimensions of functioning, a "biopsychosocial" approach is used. Thus, ICIDH-2 attempts to achieve a synthesis thereby providing a coherent view of different dimensions of health at biological, individual and social levels.

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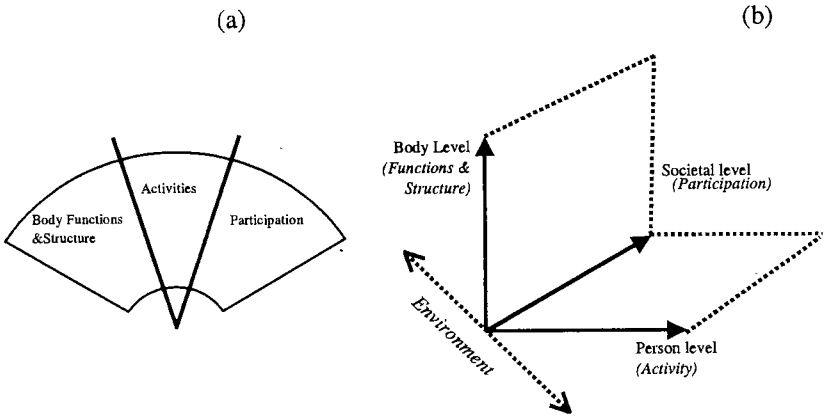
[15] The term "model" here means construct or paradigm, which differs from the use of the term in the previous section.

5.3 Conception of different dimensions of functioning: continuum or multiple dimensions?

It is possible to conceive the dimensions of functioning and disability as a continuum (Figure 2(a)) or as a multidimensional co-existence (figure 2(b)).

Figure 2: Different conceptualizations of the dimensions of functioning and disability



In a continuum approach, boundaries need to be drawn between Body Functions, Activities and Participation. For example, a function should only be in one dimension. A multidimensional approach, however, allows various functions be viewed in different dimensions at the same time. For example, a state can be seen as a composite of body functions, activities and participation at the same time. Since the nature of functions within each dimension of B, A, P are different, multidimensional approach is preferred in ICIDH-2. For example, an individual may have difficulties with memory, experience activity limitations in learning new things, and have limited participation in areas of life that require learning.

6. Use of the ICIDH-2

ICIDH-2 is a classification of human functioning and disability. It is systematically arranged according to dimensions at body, individual and society levels. At each level domains are grouped according to their common characteristics (such as their origin, type, or similarity) and ordered in a meaningful way. The classification has been organized according to a set of principles. These principles refer to the interrelatedness of the dimensions and the hierarchy of the classification (sets of levels). However, some categories in ICIDH-2 are arranged in a non-hierarchical manner, with no ordering but as equal members of a branch.

The following are structural features of the classification that have a bearing on its use.

(1) ICIDH-2 uses an alphanumeric system whereby the letters b, s, a, p and e denote the components Body Functions, Body Structures, Activities, Participation and Environmental Factors. These letters are followed by a numeric code that starts with the chapter number (1 digit), followed by the second level (2 digits), and the third and fourth levels (1 digit each).

(2) The short (concise) version has two levels. The full (detailed) version cover fours levels. Both short version and full version codes are in correspondence i.e. the short version can be aggregated from the full version.

(3) Any individual may have a range of codes in each dimension. These may be independent or interrelated.

(4) The coding also allows for the addition of one or two numbers after a decimal point, which provide additional information. These additional places are called "qualifiers". Use of any code should be accompanied by at least one qualifier. Without qualifiers codes have no meaning when used for individuals or cases.

(5) A Uniform Qualifier has been developed to describe the extent or magnitude of the problem in that dimension. This is to be used as the first qualifier. It can be used for the three dimensions and Environmental Factors.

(6) According to this uniform qualifier, all dimensions (B, A, P) and E component are coded in the same manner. Having a problem may mean an impairment, limitation, restriction or barrier depending on the dimension. Appropriate qualifying words as shown in brackets below should be chosen according to the relevant classification domain:

xxx.0	NO problem (none, absent, negligible...)	0-4 %
xxx.1	MILD problem (slight, low...)	5-24 %
xxx.2	MODERATE problem (medium, fair...)	25-49 %
xxx.3	SEVERE problem (high, extreme, ...)	50-95 %
xxx.4	COMPLETE problem (total...)	96-100 %
xxx.8	not specified	
xxx.9	not applicable	

The quantification of each qualifier as a universal scale has to be developed through assessment procedures using research. Broad ranges of percentages are provided for those cases in which calibrated assessment instruments or other standards are available to quantify the impairment, limitation, restriction or barrier.

(7) In the case of Environmental Factors, this first qualifier can also be used to denote the extent of positive aspects of the environment, namely facilitators. To denote facilitators, the same 0-4 scale can be used, but the decimal point is replaced with a plus sign: e.g. e110+2.

(8) Second Qualifiers: For different users, it might be appropriate and helpful to add other kinds of information to the coding of each item. There are a variety of potential second qualifiers that could be useful. Table 2 sets out the details of the uniform qualifier for each dimension and Environmental Factors as well as suggested second qualifiers to be developed.

Users are strongly recommended to obtain training in the use of the classification through WHO and its network of Collaborating Centres.

Table 2. Qualifiers

Dimension	First qualifier	Second qualifier
Body Functions (b)	Uniform qualifier with the negative scale used to indicate the extent or magnitude of an impairment *Example: b175.3 to indicate a severe impairment in specific mental functions of language*	To be developed to indicate duration, growth and development
Body Structure (s)	Uniform qualifier with the negative scale used to indicate the extent or magnitude of an impairment *Example: s730.4 to indicate the total absence of the upper extremity*	To be developed to indicate region: Suggested scheme 0 = more than one region 1 = right 2 = left 3 = both sides 4 = front 5 = back 6 = proximal 7 = distal 8 = not specified 9 = not applicable *Example: s730.41 to indicate the total absence of the right upper extremity*
Activity (a)	Uniform qualifier with the negative scale used to indicate degree of difficulty in accomplishing an activity. If only the first qualifier is used, it implies the level of difficulty without the use of assistive devices or personal help. If the first qualifier is used in conjunction with the second qualifier then the first qualifier now implies that this is the level of difficulty using an assistive device or personal help.	Assistance 0 = no assistance used 1 = non-personal assistance (this includes use of assistive devices, technical aids, adaptations, prostheses, wheelchair, cane and other material help) 2 = personal assistance (where the task is carried out with the "help" of another individual, where "help" includes supervision and cuing as well as physical help)

	Example: a5101.2 to indicate moderate difficulty with bathing the whole body and implies that there is moderate difficulty without the use of assistive devices or personal help	3 = both non-personal and personal assistance 9 = level of assistance unknown *Example: a5101.11 to indicate mild difficulty with bathing the whole body with the use of assistive devices*
Participation (p)	Uniform qualifier with the negative scale used to indicate the degree of restriction experienced in Participation. Reference point is the *UN Standard Rules on the Equalization of Opportunities for Persons with Disabilities.* *Example: p730.4 to indicate a total restriction of Participation in remunerative employment*	To be developed possibly to denote subjective satisfaction
Environmental Factors (e)	Uniform qualifier, with negative and positive scale to denote extent of barriers and facilitators respectively *Example: e145.2 to indicate that products for education are a moderate barrier. Conversely, e145+2 would indicate that products for education are a moderate facilitator*	To be developed

ICIDH-2 BETA-2 DRAFT

B. One Level Classification

(Includes list of Chapter headings within the classification)

BODY FUNCTIONS

BODY STRUCTURE

ACTIVITIES

PARTICIPATION

ENVIRONMENTAL FACTORS

ICIDH-2 BETA-2 DRAFT

C. Two Level Classification with definitions

(Includes list of Chapter headings and first branching level within the classification with definitions, inclusions and exclusions)

BODY FUNCTIONS

Definition: Body functions are the physiological or psychological functions of body systems. Impairments are problems in body function or structure as a significant deviation or loss.

First qualifier
Uniform qualifier with the negative scale used to indicate the extent or magnitude of an impairment

xxx.0	NO impairment (none, absent, negligible...)	0-4 %
xxx.1	MILD impairment (slight, low...)	5-24 %
xxx.2	MODERATE impairment (medium, fair...)	25-49 %
xxx.3	SEVERE impairment (high, extreme, ...)	50-95 %
xxx.4	COMPLETE impairment (total...)	96-100 %
xxx.8	not specified	
xxx.9	not applicable	

Second qualifier
To be developed to indicate duration, growth and development

CHAPTER 1 MENTAL FUNCTIONS

GLOBAL MENTAL FUNCTIONS (b110-b139)

b110 Consciousness functions

general mental functions of the state of awareness and alertness including the clarity and continuity of the wakeful state

Inclusions: functions of state, continuity and quality of consciousness; loss of consciousness, coma, vegetative states, fugues, trance states, possession states, drug-induced altered consciousness, delirium, stupor

Exclusions: energy and drive functions (b130); sleep functions (b135); orientation functions (b115)

b115 Orientation functions

general mental functions of knowing and ascertaining one's relation to self, others, to time and one's surroundings

Inclusions: functions of orientation to time, place and person; orientation to self and others; disorientation to time, place and person

Exclusions: consciousness functions (b110); attention functions (b140); memory functions (b145)

b120 Intellectual functions

general mental functions required to understand and constructively integrate the various mental functions including all cognitive functions and their development over the life span

Inclusions: functions of intellectual growth; intellectual retardation, mental retardation, dementia

Exclusions: memory functions (b145); thought functions (b165); higher level cognitive functions (b170)

b125 Temperament and personality functions

general mental functions of constitutional disposition of the individual to react in a particular way to situations including the set of mental characteristics that makes the individual distinct from others

Inclusions: functions of extraversion, introversion, agreeableness, conscientiousness, emotional stability, and openness to experience; seeking novelty

Exclusions: intellectual functions (b120); energy and drive functions (b130); psychomotor activity functions (b150); emotional functions (b155)

b130 Energy and drive functions

general mental functions of physiological and psychological mechanisms that cause the individual to move towards satisfying specific needs and general goals in a persistent manner

Inclusions: functions of energy level, motivation, appetite: craving for substances including those that cause dependence

Exclusions: consciousness functions (b110); temperament (b125); sleep functions (b135); psychomotor activity functions (b150); emotional functions (b155)

b135 Sleep functions

general mental functions of periodic, reversible and selective physical and mental disengagement from one's immediate environment accompanied by characteristic physiological changes

Inclusions: functions of sleeping, onset of sleep, maintenance of sleep, quality of sleep, sleep cycle; insomnia; hypersomnia; narcolepsy

Exclusions: consciousness functions (b110); energy and drive functions (b130); attention functions (b140); psychomotor functions (b150)

b139 Other specified and unspecified general mental functions

SPECIFIC MENTAL FUNCTIONS (b140-b189)

b140 Attention functions

specific mental functions of focusing on an external stimulus or internal experience for the required period of time

Inclusions: functions of sustaining attention, shifting attention, dividing attention, sharing attention; concentration; distractibility

Exclusions: consciousness functions (b110); energy and drive functions (b130); sleep functions (b135); memory functions (b145); psychomotor functions (b150); perceptual functions (b160)

b145 Memory functions

specific mental functions of registering and storing information and retrieving it as needed

Inclusions: functions of short term and long term memory, immediate, recent and remote memory; memory span; remembering; functions used in recalling and learning; nominal, selective and dissociative amnesia

Exclusions: consciousness functions (b110); orientation functions (b115); intellectual functions (b120); attention functions (b140); perceptual functions (b160); thought functions (b165); higher level cognitive functions (b170); specific mental functions of language (b175); calculation functions (b180)

b150 Psychomotor functions

specific mental functions of control over motor and psychological events at the body level

Inclusions: functions of psychomotor control; psychomotor retardation, excitement and agitation; posturization; catatonia; negativism, ambitendency, echopraxia, echolalia

Exclusions: consciousness functions (b110); orientation functions (b115); intellectual functions (b120); energy and drive functions (b130); attention functions (b140); specific mental functions of language (b175); mental functions of sequencing complex movements (b185)

b155 Emotional functions

specific mental functions related to the feeling and affective component of the processes of the mind

Inclusions: functions of appropriateness of emotion, regulation and range of emotion; affect; sadness, happiness, love, fear, anger, hate, tension, anxiety, joy, sorrow; lability of emotion; flattening of affect

Exclusions: temperament and personality functions (b125); energy and drive functions (b130)

b160 Perceptual functions

specific mental functions of recognising and interpreting sensory stimuli

Inclusions: functions of visual, auditory, olfactory, gustatory, tactile, visuospatial perception; hallucination; illusion

Exclusions: consciousness functions (b110); orientation functions (b115); attention functions (b140); memory functions (b145); specific mental functions of language (b175); Seeing and Related Functions (b210-b229), Hearing and Vestibular Functions (b240-b249); Additional Sensory Functions (b250-b279)

b165 Thought functions

specific mental functions related to ideational component of the mind

Inclusions: functions of pace, form, control, thought; goal-directed thought functions, non-goal directed thought functions; logical thought functions; pressure of thought, flight of ideas, thought block, incoherence of thought, tangentiality, circumstantiality, delusions, obsessions, compulsions

Exclusions: intellectual functions (b120); memory functions (b145); psychomotor functions (b150); perceptual functions (b160); higher level cognitive functions (b170); specific mental functions of language (b175); calculation functions (b180)

b170 Higher level cognitive functions

specific mental functions of abstraction and organization of ideas, time management, insight and judgement

Inclusions: functions of concept formation, categorisation, cognitive flexibility; executive functions; lack of insight, lack of judgement

Exclusions: memory functions (b145); thought functions (b165); specific mental functions of language (b175); calculation functions (b180)

b175 Specific mental functions of language

specific mental functions of recognising and using signs, symbols and other components of a language

Inclusions: functions of reception and decryptation of spoken, written or other forms of language; functions of expression of spoken, written or other forms of language; integrative language functions, spoken and written; receptive, expressive, Broca's, Wernicke's and conduction aphasia

Exclusions: attention functions (b140); memory functions (b145); perceptual functions (b160); thought functions (b165); higher level cognitive functions (b170); calculation functions (b180); mental functions of sequencing complex movements (b185); Chapter 2: Sensory Functions

b180 Calculation functions

specific mental functions of determination, approximation and manipulation of mathematical symbols

Inclusions: functions of addition, subtraction, and other simple mathematical calculations; functions of complex mathematical operations

Exclusions: attention functions (b140); memory functions (b145); thought functions (b165); higher level cognitive functions (b170); specific mental functions of language (b175)

b185 Mental function of sequencing complex movements

specific mental functions of sequencing and co-ordinating complex, purposeful movements

Inclusions: ideation, ideomotor, dressing, oculomotor, speech apraxia

Exclusions: psychomotor functions (b150); higher level cognitive functions (b170); Chapter 7 Neuromusculoskeletal and Movement Related Functions

b189 Other specified and unspecified 'specific mental functions'

b198 Other specific mental functions

b199 Unspecified mental functions

CHAPTER 2 SENSORY FUNCTIONS

SEEING AND RELATED FUNCTIONS (b210-b139)

b210 Seeing functions
sensory functions relating to sensing the presence of light and sensing the form, size, shape and colour of the visual stimuli

Inclusions: functions of sensing light and colour, visual acuity of distant and near vision, monocular and binocular vision, visual fields, quality of vision, visual picture quality; myopia, hypermetropia, astigmatism, hemianopia, colour blindness, tunnel vision, central and peripheral scotoma, diplopia, night blindness, adaptability to light

Exclusions: perceptual functions (b160); purposeful sensory activities (a110)

b215 Functions of structures adjoining the eye
functions of structures in and around the eye that facilitate seeing functions

Inclusions: functions of internal muscles of the eye, eyelid, external muscles of the eye, including voluntary and tracking movements and fixation of the eye, lachrymal glands, accommodation, pupillary reflex; nystagmus, xerophthalmia, ptosis

Exclusions: seeing functions (b210); Chapter 7 Neuromusculoskeletal and Movement Related Functions

b220 Sensations associated with eye and adjoining structures
sensations of tired, dry and itching eye and related feelings

Inclusions: feelings of pressure behind the eye, of something in the eye, eye strain, burning in the eye; eye irritation

Exclusions: sensation of pain (b275)

b229 Other specified and unspecified seeing and related functions

HEARING AND VESTIBULAR FUNCTIONS (b230-b249)

b230 Hearing functions
sensory functions relating to sensing the presence of sounds and discriminating the location, pitch, loudness and quality of sounds

Inclusions: functions of hearing, auditory discrimination, localization of sound source, lateralization of sound, speech discrimination; deafness, hearing impairment, hearing loss

Exclusions: perceptual functions (b160); specific mental functions of language (b175); purposeful sensory activities (a110)

b235 Vestibular function
sensory functions of the inner ear related to position, balance and movement

Inclusions: functions of balance of the body; positional sense

Exclusions: sensation associated with hearing and vestibular functions (b240)

b240 Sensations associated with hearing and vestibular function
sensations of dizziness, falling, tinnitus and vertigo

Inclusions: sensations of ringing in ears, irritation in ear, aural pressure, nausea associated with dizziness or vertigo

Exclusions: vestibular functions (b235); sensation of pain (b275)

b249 Other specified and unspecified hearing and vestibular functions

ADDITIONAL SENSORY FUNCTIONS (b250-b279)

b250 Taste function

sensory functions for sensing qualities of bitterness, sweetness, sourness and saltiness

Inclusions: functions of tasting, gustatory functions; ageusia, hypogeusia

Exclusions: purposeful sensory activities (a110)

b255 Smell function

sensory functions for sensing odours and smells

Inclusions: functions of smelling, olfactory functions; anosmia, hyposmia

Exclusions: purposeful sensory activities (a110)

b260 Proprioceptive function

sensory functions for sensing the relative position of body parts

Inclusions: functions of statesthesia, kinaesthesia

Exclusions: vestibular functions (b235); sensations related to muscles and movement functions (b780)

b265 Touch function

sensory functions of sensing surfaces and their texture or quality

Inclusions: functions of touching, feeling of touch; numbness, anaesthesia, tingling, paraesthesia, hyperaesthesia

Exclusions: sensory functions related to temperature and other stimuli (b270); purposeful sensory activities (a110)

b270 Sensory functions related to temperature and other stimuli

sensory functions for sensing temperature, vibration, pressure, noxious stimulus

Inclusions: functions of sensing cold and heat, shaking or oscillation, deep pressure, burning sensation

Exclusions: touch functions (b265); sensation of pain (b275)

b275 Sensation of pain

sensation of unpleasant feeling indicating potential or actual damage to some body structure

Inclusions: sensations of generalised or localised pain, in one or more body part, pain in a dermatome, stabbing pain, burning pain, dull pain, aching pain; myalgia, analgesia, hyperalgesia

b279 Other specified and unspecified additional sensory functions

b298 Other specified sensory functions

b299 Unspecified sensory functions

CHAPTER 3 VOICE AND SPEECH FUNCTIONS

b310 Voice functions

functions for the production of various sounds by the passage of air through the larynx

Inclusions: functions of phonation, pitch, loudness and qualities of voice; aphonia, dysphonia, hoarseness, hypernasality, hyponasality

Exclusions: specific mental functions of language (b175); articulation functions (b320); activities of producing spoken messages (a230); conversation activities (a250)

b320 Articulation functions

functions for the production of speech sounds

Inclusions: functions of enunciation, articulation of phonemes; spastic, ataxic, flaccid dysarthria; anarthria

Exclusions: specific mental functions of language (b175); voice functions (b310); activities of producing spoken messages (a230); conversation activities (a250)

b330 Fluency and rhythm of speech functions

functions for the production of flow and tempo of speech

Inclusions: functions of speech patterns, fluency of speech, prosody and intonation, melody of speech; stuttering, stammering, cluttering, bradylalia, tachylalia

Exclusions: specific mental functions of language (b175); voice functions (b310); articulation functions (b320); activities of producing spoken messages (a230); conversation activities (a250)

b340 Alternative vocalization functions

functions for the production of other manners of vocalization

Inclusions: functions of the production of notes as in singing, chanting, babbling and humming; crying aloud, screaming

Exclusions: specific mental functions of language (b175); voice functions (b310); articulation functions (b320); fluency and rhythm of speech functions (b330); activities of producing spoken messages (a230); conversation activities (a250)

b398 Other specified voice and speech functions

b399 Unspecified voice and speech functions

CHAPTER 4 FUNCTIONS OF THE CARDIOVASCULAR, HAEMATOLOGICAL, IMMUNOLOGICAL AND RESPIRATORY SYSTEMS

FUNCTIONS OF THE CARDIOVASCULAR SYSTEM (b410-b429)

b410 Heart functions

functions of pumping the blood in adequate or required amounts and pressure to the body

Inclusions: functions of heart rate, rhythm and output; contraction force of ventricular muscles; functions of heart valves; pumping the blood through the pulmonary circuit; dynamics of circulation to the heart; heart failure, cardiomyopathy, myocarditis, coronary insufficiency, tachycardia, bradycardia, irregular heart beat

Exclusions: blood vessel functions (b415); blood pressure functions (b420); functions of exercise tolerance (b455)

b415 Blood vessel functions

functions of transporting blood throughout the body

Inclusions: functions of arteries, capillaries and veins; vasomotor function; functions of pulmonary arteries, capillaries and veins; functions of values of veins; blockage or constriction of arteries; atherosclerosis, arteriosclerosis, thromboembolism, varicose veins

Exclusions: heart functions (b410); blood pressure functions (b420); functions of the haematological system (b430); functions of exercise tolerance (b470)

b420 Blood pressure functions

functions of maintaining the pressure of blood within the arteries

Inclusions: functions of maintenance of blood pressure; increased and decreased blood pressure; hypotension, hypertension; postural hypotension

Exclusions: heart functions (b410); blood vessel functions (b415); exercise tolerance functions (b455)

b429 Other specified and unspecified functions of the cardiovascular system

FUNCTIONS OF THE HAEMATOLOGICAL AND IMMUNOLOGICAL SYSTEMS (b430-b439)

b430 Haematological system functions

functions of the blood production and functions of oxygen and metabolite carriage and clotting

Inclusions: functions of bone marrow; blood-related functions of spleen; oxygen carrying functions of blood; metabolite carrying functions of blood; clotting; anaemia; haemophilia and other clotting dysfunctions

Exclusions: Functions of the Cardiovascular System (b410-b429); immunological system functions (b435); exercise tolerance functions (b455)

b435 Immunological system functions
functions of the body related to protection against foreign substances including infections by specific and non-specific immune responses

Inclusions: functions of cell-mediated immunity, antibody-mediated immunity; response to immunisation; functions of lymph nodes and lymphatic vessels; hypersensitivity reactions; autoimmunity; allergic reactions; lymphadenitis; lymphedema

Exclusions: haematological system functions (b430)

b439 Other specified and unspecified functions of the haematological and immunological systems

FUNCTIONS OF THE RESPIRATORY SYSTEM (b440-b449)

b440 Respiration functions
functions of inhaling air into the lungs, the exchange of gases between air and blood and exhaling the air

Inclusions: functions of respiration rate, rhythm and depth; apnea, hyperventilation, irregular respiration, paradoxical respiration, pulmonary emphysema, bronchial spasm

Exclusions: respiratory muscles functions (b445); additional functions related to respiration (b450); exercise tolerance functions (b455)

b445 Respiratory muscles functions
functions of the muscles involved in breathing

Inclusions: functions of thoracic respiratory muscles; functions of the diaphragm; functions of accessory respiratory muscles

Exclusions: : respiration functions (b440); additional functions related to respiration (b450); exercise tolerance functions (b455)

b449 Other specified and unspecified functions of the respiratory system

ADDITIONAL FUNCTIONS AND SENSATIONS OF THE CARDIOVASCULAR AND RESPIRATORY SYSTEMS (b450-b469)

b450 Additional respiratory functions
additional functions related to breathing, such as coughing, sneezing and yawning

Inclusions: functions of blowing, whistling, mouth breathing

b455 Exercise tolerance functions
functions related to the respiratory and cardiovascular capacity as required for enduring physical exertion

Inclusions: functions of aerobic capacity; stamina; physical endurance; fatiguability

Exclusions: respiration functions (b440); respiratory muscles functions (b445); additional respiration functions (b450)

b460 Sensations associated with cardiovascular and respiratory functions
sensations such as missing a heart beat, palpitation, shortness of breath

Inclusions: sensations of tightness of chest, feeling of irregular beat, dyspnea, air hunger, choking, gagging, wheezing

Exclusions: sensation of pain (b275)

b469 Other specified and unspecified additional functions and sensations of the cardiovascular and respiratory systems

b498 Other specified functions of the cardiovascular, haematological, immunological and respiratory systems

b499 Unspecified functions of the cardiovascular, haematological, immunological cardiovascular and respiratory systems

CHAPTER 5 FUNCTIONS OF THE DIGESTIVE, METABOLIC, ENDOCRINE SYSTEMS

FUNCTIONS RELATED TO THE DIGESTION SYSTEM (b510-b569)

b510 Ingestion functions

functions related to taking and manipulating solids or liquids into the body by the mouth

Inclusions: functions of sucking, chewing, controlling food in the mouth, salivation, swallowing, burping, regurgitation, spitting and vomiting; dysphagia, aspiration of food, aerophagia, excessive salivation, drooling, insufficient salivation

Exclusions: sensations associated with digestive system (b535)

b515 Digestive functions

functions of transporting food through the alimentary canal and breakdown of food and absorption of nutrients

Inclusions: functions of peristalsis; enzyme production and action in stomach and intestines; hyperacidity of stomach, malabsorption, intolerance to food, hypermotility of intestines, intestinal paralysis, intestinal obstruction, decreased bile production

Exclusions: ingestion functions (b510); assimilation functions (b520); defecation functions (b525); sensations associated with the digestive system (b535)

b520 Assimilation functions

functions by which nutrients are converted into components of the living body

Inclusions: functions of storage of nutrients in the body

Exclusions: digestive functions (b515); defecation functions (b525); weight maintenance functions (b530); general metabolic functions (b540)

b525 Defecation functions

functions of elimination of wastes and undigested food as faeces and related functions

Inclusions: functions of elimination, faecal consistency, frequency of defecation, faecal continence, flatulence; constipation, diarrhoea, watery stools, anal sphincter incompetence

Exclusions: digestive functions (b515); assimilation functions (b520); sensations associated with the digestive system (b535)

b530 Weight maintenance functions

functions of maintaining appropriate body weight, including weight gain during the developmental period

Inclusions: functions of maintenance of acceptable Body Mass Index (BMI); underweight, cachexia, wasting, overweight, emaciation, primary and secondary obesity

Exclusions: assimilation functions (b520); general metabolic functions (b540); functions of endocrine glands (b555)

b535 Sensations associated with the digestive system

sensations such as nausea, feeling bloated and abdominal cramp

Inclusions: sensations of fullness of stomach, globus feeling, spasm of stomach, gas in stomach, heartburn

Exclusions: sensation of pain (b275); ingestion functions (b510); digestive functions (b515); defecation functions (b525)

b539 Other specified and unspecified functions related to the digestive system

FUNCTIONS RELATED TO METABOLISM AND THE ENDOCRINE SYSTEM (b570-b559)

b540 General metabolic functions

functions of regulation of the essential components of the body such as carbohydrates, proteins and fats, their conversion one to the other, and their breakdown into energy

Inclusions: functions of metabolism, basal metabolic rate, metabolism of carbohydrate, protein and fat, catabolism, anabolism, energy production in the body; increase or decrease in metabolic rate

Exclusions: assimilation functions (b520); weight maintenance functions (b530); water, mineral and electrolyte balance functions (b545); thermoregulatory functions (b550); endocrine glands functions (b555)

b545 Water, mineral and electrolyte balance functions

functions of the regulation of water, minerals, and electrolytes in the body

Inclusions: functions of water balance, balance of minerals such as calcium, zinc, iron and balance of electrolytes such as sodium and potassium; water retention, dehydration, hypercalcimia, hypocalcimia, iron deficiency, hypernatremia, hyponatremia, hyperkalemia, hypokalemia

Exclusions: haematological system functions (b430); general metabolic functions (b540); endocrine glands functions (b555)

b550 Thermoregulatory functions

functions of the regulation of body temperature

Inclusions: functions of maintenance of body temperature; hypothermia, hyperthermia

Exclusions: general metabolic functions (b540); endocrine glands functions (b555)

b555 Endocrine glands functions

functions of production and regulation of hormonal levels in the body including cyclical changes

Inclusions: functions of hormonal balance; hypopituitarism, hyperpituitarism, hyperthyroidism, hypothyroidism, hyperadrenalism, hypoadrenalism, hyperparathyroidism, hypoparathyroidism, hypergonadism, hypogonadism

Exclusions: general metabolic functions (b540); water, mineral and electrolyte balance functions (b545); thermoregulatory functions (b550); sexual functions (b640); menstruation functions (b650)

b559 Other specified and unspecified functions related to metabolism and the endocrine system

b598 Other specified functions of the digestive, metabolic and endocrine systems

b599 Unspecified functions of the digestive, metabolic and endocrine systems

CHAPTER 6 GENITOURINARY AND REPRODUCTIVE FUNCTIONS

URINARY FUNCTIONS (b610-b639)

b610 Urinary excretory functions
functions of filtration and collection of the urine

Inclusions: functions of urinary filtration, collection of urine; renal insufficiency, anuria, olguri, hydronephrosis, hypotonic urinary bladder, ureteric obstruction

Exclusions: urination functions (b620)

b620 Urination functions
functions of discharge of urine from the urinary bladder

Inclusions: functions of urination, frequency of urination, urinary continence; stress, urge, reflex, overflow, continuous incontinence, dribbling, automatic bladder, polyuria, urinary retention, urinary urgency

Exclusions: urinary excretory functions (b610); sensations associated with urinary functions (b630)

b630 Sensations associated with urinary functions
sensations such as burning during urination and feeling of urgency

Inclusions: sensations of incomplete voiding of urine, feeling of fullness of bladder

Exclusions: sensations of pain (b275); urination functions (b620)

b639 Other specified and unspecified urinary functions

GENITAL AND REPRODUCTIVE FUNCTIONS (b640-b679)

b640 Sexual functions
mental and physical functions related to the sexual act, including the arousal, preparatory, orgasmic, and resolution stages

Inclusions: functions related to sexual interest, performance, penile erection, clitoral erection, vaginal lubrication, ejaculation, orgasm; impotence, frigidity, vaginismus, premature ejaculation, maintaining erection, delayed ejaculation

Exclusions: procreation functions (b660); sensations associated with genital and reproductive functions (b670)

b650 Menstruation functions
functions associated with the menstrual cycle, including regularity of menstruation and discharge of menstrual fluids

Inclusions: functions of regularity and interval of menstruation, extent of menstrual bleeding, menarche, menopause; premenstrual tension, primary and secondary amenorrhoea, menorrhagia, polymenorrhoea, retrograde menstruation

Exclusions: sexual functions (b640); procreation functions (b660); sensations associated with genital and reproductive functions (b670); sensation of pain (b275)

b660 Procreation functions

functions associated with fertility, pregnancy, childbirth and lactation

Inclusions: functions of male fertility and female fertility, multiple pregnancy; subfertility, sterility, azoospermia, oliguzoospermia, spontaneous abortions, ectopic pregnancy, miscarriage, small fetus, hydroamnios, premature childbirth, delayed childbirth, galactorrhoea, agalactorrhoea, alactation

Exclusions: sexual functions (b640); menstruation functions (b650)

b670 Sensations associated with genital and reproductive functions

sensations such as discomfort during sexual intercourse and during menstrual cycle

Inclusions: sensations of dyspareunia, dysmenorrhoea, hot flushes during menopause, night sweats during menopause

Exclusions: sensation of pain (b275); sensations associated with urinary functions (b630); sexual functions (b640); menstruation functions (b650); procreation functions (b660)

b679 Other specified and unspecified genital and reproductive functions

b698 Other specified genitourinary and reproductive functions

b699 Unspecified genitourinary and reproductive functions

CHAPTER 7 NEUROMUSCULOSKELETAL AND MOVEMENT RELATED FUNCTIONS

FUNCTIONS OF THE JOINTS AND BONES (b710-b729)

b710 Mobility of joints functions
functions of the range and ease of movement of a joint

Inclusions: functions of mobility of single or several joints, vertebral, shoulder, elbow, wrist, hip, knee, ankle, small joints of hands and feet; mobility of joints generalized; hypermobility of joints, frozen joints, frozen shoulder, arthritis

Exclusions: stability of joints functions (b715); control of voluntary movements functions (b760)

b715 Stability of joints functions
functions of the maintenance of structural integrity of the joints

Inclusions: functions of the stability of a single joint, several joints, and joints generalized; unstable shoulder joint, dislocation of a joint, dislocation of shoulder and hip

Exclusions: mobility of joints functions (b710)

b720 Mobility of bones functions
functions of the range and ease of movement of specific bone groups, that is scapula, pelvis, carpal and tarsal bones

Inclusions: frozen scapula and frozen pelvis

Exclusions: mobility of joints functions (b710)

b729 Other specified and unspecified functions of the joints and bones

MUSCLE FUNCTIONS (b730-b749)

b730 Muscle power functions
functions related to the force generated by the contraction of a muscle or muscle groups

Inclusions: functions associated with the power of specific muscles and muscle groups, including weakness of small muscles in feet and hands, muscles of one limb, of one side of the body, of lower half of body, of all limbs, of the trunk, and of all muscles of the body; muscle paresis, muscle paralysis, monoplegia, hemiplegia, paraplegia, quadriplegia, akinetic mutism

Exclusions: muscle tone functions (b735); muscle endurance functions (b740); functions of eye muscles (b215)

b735 Muscle tone functions
functions related to the tension present in the resting muscles and the resistance offered when trying to move the muscle passively

Inclusions: functions associated with the tension of isolated muscles and muscle groups, muscles of one limb, one side of body, the lower half of body, muscles of all limbs, of the trunk and of all muscles of the body; hypotonia, hypertonia, muscle spasticity

Exclusions: muscle power functions (b730); muscle endurance functions (b740)

b740 Muscle endurance functions

functions related to sustaining muscle contraction for the required period of time

Inclusions: functions associated with sustaining muscle contraction for isolated muscles and muscle groups, and all muscles of the body; myasthenia gravis

Exclusions: exercise tolerance functions (b455); muscle power functions (b730); muscle tone functions (b735)

b749 Other specified and unspecified muscle functions

MOVEMENT FUNCTIONS (b750-b779)

b750 Motor reflex functions

functions of involuntary contraction of muscles automatically induced by specific stimuli

Inclusions: functions of stretch motor reflex, automatic local joint reflex, reflexes generated by noxious stimuli and other exteroceptive stimuli; withdrawal reflex, biceps reflex, radius reflex, quadriceps reflex, patellar reflex, ankle reflex

b755 Involuntary movement reactions functions

functions of involuntary contractions of large muscles or the whole body induced by body position, balance and threatening stimuli

Inclusions: functions of postural reactions, rightening reactions, body adjustment reactions, balance reactions, supporting reactions, defensive reactions

Exclusions: motor reflex functions (b750)

b760 Control of voluntary movements functions

functions associated with the control over and coordination of voluntary movements

Inclusions: functions of control of simple voluntary movements, of complex voluntary movements, coordination of voluntary movements, supportive functions of arm or leg, right-left motor coordination, eye-hand coordination, eye-foot coordination; control and coordination problems, such dysdiadochokinesia

Exclusions: muscle power functions (b730); involuntary movements functions (b765); gait pattern functions (b770)

b765 Involuntary movements functions

functions of unintentional, non- or semi-purposive involuntary contractions of a muscle or group of muscles

Inclusions: involuntary contractions of muscles, tremors, tics, mannerisms, stereotypies, motor perserveration, chorea, athetosis, vocal tics, dystonic movements, dyskinesia

Exclusions: control of voluntary movements functions (b760); gait pattern functions (b770)

b770 Gait pattern functions

functions of movement patterns associated with walking, running or other whole body movements

Inclusions: walking patterns and running patterns; spastic gait, hemiplegic gait, paraplegic gait, asymmetric gait, limping, stiff gait pattern

Exclusion: muscle power functions (b730); muscle tone functions (b735); control of voluntary movements functions (b760); involuntary movements functions (b765)

b779 Other specified and unspecified movement functions

b780 Sensations related to muscles and movement functions
sensations such as the feeling of muscle stiffness, muscle spasm, discomfort while walking

Inclusions: sensations of tightness of muscles, heaviness of muscles, constrictions of muscles

Exclusions: sensation of pain (b275)

b798 Other specified neuromusculoskeletal and movement related functions

b799 Unspecified neuromusculoskeletal and movement related functions

CHAPTER 8 FUNCTIONS OF THE SKIN AND RELATED STRUCTURES

FUNCTIONS OF THE SKIN (b810-b849)

b810 Protective functions of the skin
functions of the skin for protecting the body from physical, chemical and biological threats

Inclusions: functions of protecting against the sun and other radiation, photosensitivity, pigmentation, quality of skin, insulating function of skin, callous formation, hardening; broken skin, ulcers, bed sores, thinning of skin

Exclusions: repair functions of the skin (b820); other functions of the skin (b830)

b820 Repair functions of the skin
functions of the skin for repairing breaks and other damage to the skin

Inclusions: functions of scab formation, healing, scarring; bruising, keloid formation

Exclusions: protective functions of the skin (b810); other functions of the skin (b830)

b830 Other functions of the skin
functions of the skin other than protective and repair

Inclusions: functions of sweating, glandular functions of the skin, body odour

Exclusions: protective functions of the skin (b810); repair functions of the skin (b820)

b840 Sensation related to the skin
sensations related to the skin such as itching, burning sensation, tingling

Inclusions: pins and needles sensation, crawling sensation

Exclusions: sensation of pain (b285)

b849 Other specified and unspecified functions of the skin

FUNCTIONS OF THE HAIR AND NAILS (b850-b869)

b850 Functions of hair
functions of the hair, such as protection and appearance

Inclusions: functions of growth of hair, pigmentation of hair, location of hair; loss of hair, alopecia

b860 Functions of nails
functions of the nails, such as in protection, scratching and appearance

Inclusions: growth and pigmentation of nails, quality of nails

b869 Other specified and unspecified functions of the hair and nails

b898 Other specified functions of the skin and related structures

b899 Unspecified functions of the skin and related structures

BODY STRUCTURE

Definition: Body sructures are anatomical parts of the body such as organs, limbs and their components. Impairments are problems in body function or structure as a significant deviation or loss.

First qualifier
Uniform qualifier with the negative scale used to indicate the extent or magnitude of an impairment

xxx.0	NO impairment (none, absent, negligible...)	0-4 %
xxx.1	MILD impairment (slight, low...)	5-24 %
xxx.2	MODERATE impairment (medium, fair...)	25-49 %
xxx.3	SEVERE impairment (high, extreme, ...)	50-95 %
xxx.4	COMPLETE impairment (total...)	96-100 %
xxx.8	not specified	
xxx.9	not applicable	

Second qualifier
To be developed to indicate region

Suggested scheme:

0 = more than one region	5 = back
1 = right	6 = proximal
2 = left	7 = distal
3 = both sides	8 = not specified
4 = front	9 = not applicable

CHAPTER 1 STRUCTURE OF THE NERVOUS SYSTEM

s110 Structure of brain

s120 Spinal cord and related structures

s130 Structure of meninges

s140 Structure of sympathetic nervous system

s150 Structure of parasympathetic nervous system

s198 Other specified structure of the nervous system

s199 Unspecified structure of the nervous system

CHAPTER 2 THE EYE, EAR AND RELATED STRUCTURES

s210 Structure of eye socket

s220 Structure of the eyeball

s230 Structures around the eye

s240 Structure of the external ear

s250 Structure of the middle ear

s260 Structure of the inner ear

s298 Other specified eye, ear and related structures

s299 Unspecified eye, ear and related structures

CHAPTER 3 STRUCTURES INVOLVED IN VOICE AND SPEECH

s310 Structure of the nose

s320 Structure of the mouth

s330 Structure of the pharynx

s340 Structure of larynx

s398 Other specified structures involved in voice and speech

s399 Unspecified structures involved in voice and speech

CHAPTER 4 STRUCTURE OF THE CARDIOVASCULAR, IMMUNOLOGICAL AND RESPIRATORY SYSTEMS

s410 Structure of cardiovascular system

s420 Structure of immune system

s430 Structure of respiratory system

s498 Other specified structures of the cardiovascular, immunological and respiratory systems

s499 Unspecified structures of the cardiovascular, immunological and respiratory systems

CHAPTER 5 STRUCTURES RELATED TO THE DIGESTIVE, METABOLISM AND ENDOCRINE SYSTEMS

s510 Structure of salivary glands

s520 Structure of oesophagus

s530 Structure of stomach

s540 Structure of intestine

s550 Structure of pancreas

s560 Structure of liver

s570 Structure of gall bladder and ducts

s580 Structure of endocrinological glands

s598 Other specified structures related to the digestive, metabolism and endocrine systems

s599 Unspecified structures related to the digestive, metabolism and endocrine systems

CHAPTER 6 STRUCTURE RELATED TO GENITOURINARY SYSTEM

s610 Structure of urinary system

s620 Structure of pelvic floor

s630 Structure of reproductive system

s698 Other specified structures related to genitourinary system

s699 Unspecified structures related to genitourinary system

CHAPTER 7 STRUCTURE RELATED TO MOVEMENT

s710 Structure of head and neck region

s720 Structure of shoulder region

s730 Structure of upper extremity

s740 Structure of pelvic region

s750 Structure of lower extremity

s760 Structure of trunk

s770 Additional musculoskeletal structure related to movement

s798 Other specified structures related to movement

s799 Unspecified structures related to movement

CHAPTER 8 SKIN AND RELATED STRUCTURES

s810 Structure of areas of skin

s820 Structure of skin glands

s830 Structure of nails

s840 Structure of hair

s898 Other specified skin and related structures

s899 Unspecified skin and related structures

ACTIVITIES

Definition: Activity is the performance of a task or action by an individual. Activity limitations are difficulties in performance of activities.

First qualifier

Uniform qualifier with the negative scale used to indicate degree of difficulty in accomplishing an activity.

xxx.0	NO difficulty (none, absent, negligible...)	0-4 %
xxx.1	MILD difficulty (slight, low...)	5-24 %
xxx.2	MODERATE difficulty (medium, fair...)	25-49 %
xxx.3	SEVERE difficulty (high, extreme, ...)	50-95 %
xxx.4	COMPLETE difficulty (total...)	96-100 %
xxx.8	not specified	
xxx.9	not applicable	

If only the first qualifier is used, it implies the level of difficulty without the use of assistive devices or personal help. If the first qualifier is used in conjunction with the second qualifier then the first qualifier now implies that this is the level of difficulty using an assistive device or personal help.

Second qualifier

Assistance

0 = no assistance used

1 = non-personal assistance (this includes use of assistive devices, technical aids, adaptations, prostheses, wheelchair, cane and other material help)

2 = personal assistance (where the task is carried out with the "help" of another individual, where "help" includes supervision and cuing as well as physical help)

3 = both non-personal and personal assistance

9 = level of assistance unknown

CHAPTER 1 ACTIVITIES OF LEARNING AND APPLYING KNOWLEDGE

LEARNING ACTIVITIES (a110-a139)

a110 Purposeful sensory activities
actions of using the body's basic senses intentionally or for some purpose, such as learning or experience

Inclusions: activities of watching, listening, observing, tasting, smelling, feeling by touch

a115 Basic learning activities
elementary activities required for the acquisition of knowledge and skills

Inclusions: activities of paying attention, copying, mimicking, recalling, rehearsing, repeating, practising

a120 Activities of learning to read
basic actions required to develop competence to read material in a language

Inclusions: activities of developing competence in recognizing characters and alphabets and sounding out words and longer passages to elicit their meaning

a125 Activities of learning to write
basic actions required to develop competence to produce symbols that are used to represent sounds and words or phrases in a language in order to convey meaning

a130 Activities of learning to calculate
basic actions required to develop competence in manipulating numbers and performing simple and complex mathematical operations

a135 Activities of acquiring skills
basic actions required to acquire and develop competence in a skill or collection of tasks

Inclusions: activities of comprehending nature of a skill, initiating acquisition of a skill, following through with acquisition of a skill

a139 Other specified and unspecified learning activities

ACTIVITIES OF APPLYING KNOWLEDGE (a140-a159)

a140 Thinking activities
mental actions and tasks of formulating and manipulating ideas, concepts and images

Inclusions: activities of goal-directed thinking: logical thinking, critical thinking, deliberating, considering; and non goal-directed thinking: creating mental images, imagining, ruminating, pondering, contemplating, reflecting, speculating

Exclusions: basic learning activities (a115), problem solving activities (a145), decision making activities (a150)

a145 Problem solving activities

mental and other actions and tasks of identifying and analysing problems, identifying solutions, and evaluating potential effects of solutions

Inclusions: activities of defining a problem, identifying steps to solve the problem, discriminating between options, weighing alternative solutions, and considering possible consequences of each solution

Exclusions: thinking activities (a140), decision making activities (a150)

a150 Decision making activities

mental and other actions and tasks of making a choice among options, implementing choice and evaluating effects of choice made

Inclusions: activities of choosing, making judgments, selecting options, putting decisions into effect, executing decisions, assessing consequences of decisions

Exclusions: thinking activities (a140), problem solving activities (a145)

a159 Other specified and unspecified activities of applying knowledge

a198 Other specified activities of learning and applying knowledge

a199 Unspecified activities of learning and applying knowledge

CHAPTER 2 COMMUNICATION ACTIVITIES

ACTIVITIES OF UNDERSTANDING MESSAGES (a210-a229)

a210 Activities of understanding spoken messages
actions of comprehending the literal and implied meanings of messages in spoken language

Inclusions: activities of understanding words, phrases and longer passages in language as it is spoken, understanding electronically reproduced messages, such as digitized speech, understanding simple and complex messages, understanding humour, sarcasm, figurative or symbolic meanings, understanding implied meanings in context

a215 Activities of understanding messages in formal sign language
actions of comprehending the literal and implied meanings of messages in formal sign language

Inclusions: activities of understanding messages in American Sign Language and other formal sign language, understanding electronically reproduced messages in sign language, understanding simple and complex messages, understanding humour, sarcasm, figurative or symbolic meanings, understanding implied meanings in context

a220 Activities of understanding non-verbal messages
actions of comprehending the literal and implied meanings of messages conveyed by gestures, symbols and drawings

Inclusions: activities of understanding body language, smiling, frowning, crying, moaning, sighing, screaming, and understanding stop signs, traffic signs, warning symbols, musical notation, drawings and photographs

a225 Activities of understanding written messages (reading)
actions of comprehending the literal and implied meanings of messages that are conveyed through written language

Inclusions: activities of reading, understanding words, phrases and longer written material, reading in Braille, handwriting, typed messages on paper and other surfaces such as computer screens, understanding simple and complex messages, humour, sarcasm, figurative or symbolic meanings, understanding implied meanings in context

a229 Other specified and unspecified activities of understanding messages

ACTIVITIES OF PRODUCING MESSAGES (a230-a249)

a230 Activities of producing spoken messages (speaking)
actions of producing spoken messages with literal and implied meaning

Inclusions: activities of speaking, producing words, phrases and longer passages in language as it is spoken, producing simple and complex messages, producing humour, sarcasm, figurative or symbolic meanings in language, producing implied meanings in context

a235 Activities of producing messages in formal sign language
actions of producing messages in formal sign language with literal and implied meaning

Inclusions: activities of conveying messages in American Sign Language or other formal sign languages, producing simple and complex messages, producing humour, sarcasm, figurative or symbolic meanings in language, producing implied meanings in context

a240 Activities of producing non-verbal messages
actions of using gestures, symbols and drawings to convey messages

Inclusions: activities of using body language, smiling, frowning, crying, moaning, sighing, screaming to convey implicit meaning, using signs or other symbols, musical notation, drawings and photographs

a245 Activities of producing written messages (writing)
actions of producing the literal and implied meanings of messages that are conveyed through written language

Inclusions: activities of writing, producing words, phrases and longer written material, writing in Braille, handwriting, typed messages on paper and other surfaces such as computer screens, writing simple and complex messages, conveying humour, sarcasm, figurative or symbolic meanings, producing implied meanings in context

a249 Other specified and unspecified activities of producing messages

CONVERSATION ACTIVITIES AND USE OF COMMUNICATION DEVICES AND TECHNIQUES (a250-a259)

a250 Conversation activities
actions of exchanging messages dynamically and interactively between two or more individuals

Inclusions: activities of initiating, maintaining and shaping a conversation, chatting, conversing, debating, discussing, face-to-face conversations, discussions with many people

a255 Activities of using communication devices and techniques
the activities of using devices, techniques and other technology for the purposes of communicating

Inclusions: activities of using telephone, telegraph, and other telecommunication devices for communicating, TTY, computers, speech synthesizer, electrolarynx, typewriters, Braillewriters

a259 Other specified and unspecified conversation activities and use of communication devices and techniques

a298 Other specified communication activities

a299 Unspecified communication activities

CHAPTER 3 MOVEMENT ACTIVITIES

ACTIVITIES OF MAINTAINING AND CHANGING BODY POSITION (a310-a339)

a310 Activities of maintaining a body position
actions of staying in the same body position as required

Inclusions: activities of maintaining lying, standing, stooping, kneeling, squatting or seated position

a320 Activities of changing body position
actions of getting into and out of a body position and moving from one position into another

Inclusions: activities of moving from lying down to standing up, kneeling to standing, standing to sitting, squatting to kneeling, shifting the weight of the body

Exclusions: activities of transferring oneself (a330)

a330 Activities of transferring oneself
actions of moving from one surface to another surface

Inclusions: activities of moving along a seat or bench, moving from bed to chair, from one bed to another, from wheelchair to bed, from toilet seat to wheelchair, from wheelchair to car seat

Exclusions: Other moving around activities (a420)

a339 Other specified and unspecified activities of maintaining and changing body position

ACTIVITIES OF CARRYING, MOVING AND MANIPULATING OBJECTS (a340-a379)

a340 Lifting and carrying activities
coordinated actions of raising up an object and the activities of taking an object from one place to another

Inclusions: activities of lifting small or large objects, putting them down, activities of carrying in the hands, in the arms, on the shoulders, head, back and hip

a350 Activities of moving objects with lower extremities
coordinated actions aimed at making objects move by using the legs and feet

Inclusions: activities of kicking, pushing pedals

a360 Activities of fine hand use
coordinated actions of handling objects, picking up, manipulating and releasing them using one hand, fingers and thumb

Inclusions: activities of picking up and manipulating coins or other small objects, grasping with fingers and thumb, turning page of book, playing musical instruments

Exclusions: Lifing and carrying activities (a340)

a370 Activities of hand and arm use

coordinated actions aimed at making objects move or manipulating them by using hands and arms

Inclusions: activities of pulling or pushing objects, turning or twisting knobs or handles, throwing, catching, handling containers, handles, locks, switches, knobs, plugs and power sockets.

Exclusions: activities of fine hand use (a360)

a379 Other specified and unspecified activities of carrying, moving and manipulating objects

a398 Other specified movement activities

a399 Unspecified movement activities

CHAPTER 4 ACTIVITIES OF MOVING AROUND

WALKING AND RELATED ACTIVITIES (a410-a439)

a410 Walking activities

coordinated actions of advancing on foot, step by step, in a manner in which at least one foot is always on the ground

Inclusions: activities of strolling, sauntering, walking short, medium or long distances, forwards, backwards, sideways, walking on sloping, smooth, rough, moving, wet, muddy, icy and other kinds of surfaces, around moving or stationary obstacles, walking with the help of a cane, walker, prostheses and orthoses

Exclusions: activities of transferring oneself (a330), other moving around activities (a420)

a420 Other moving around activities

coordinated actions of moving the whole body from one place to another by means other than walking

Inclusions: activities of crawling, climbing, running, jogging, jumping, skipping, scampering, swimming, with or without the help of prostheses and orthoses; crawling, running, jumping and skipping on different surfaces; running around obstacles, such as immobile objects, people, animals, and vehicles

Exclusions: activities of transferring oneself (a330), walking activities (a410)

a430 Activities of moving around using equipment

actions and tasks of moving the whole body from one place to another using implements including assistive devices

Inclusions: activities of moving around using a wheelchair, skiing, skating, skateboarding, scuba diving, paragliding; activities of moving around with equipment on different surfaces and around obstacles, such as moving around traffic in a wheelchair

Exclusions: activities of transferring oneself (a330), walking activities (a410), other moving around activities (a420), activities of using transportation as a passenger (a440), activities of using transportation as a driver (a450)

a439 Other specified and unspecified walking and related activities

ACTIVITIES OF MOVING AROUND USING TRANSPORTATION (a440-a459)

a440 Activities of using transportation as a passenger

coordinated actions and tasks of using transportation of any kind, as performed by the individual being transported

Inclusions: activities needed to be driven as a passenger on human-powered vehicles, such as a bicycle, rickshaw, jitney, animal or animal-powered vehicle such as a carriage, or a private or public vehicle, such as a car, taxi, bus, train, tram, plane, subway, boat, airplane

Exclusions: activities of moving around using equipment (a430), activities of using transportation as a driver (a450)

a450 Activities of using transportation as a driver

performing the coordinated actions and tasks that are needed to use, as a driver, any mode of transportation, animal or human-powered or motorized

Inclusions: activities of driving a human-power vehicle; driving a motorized vehicle such as car, van, boat or plane; driving animal-power vehicles; riding animals for transportation

Exclusions: activities of moving around using equipment (a430), activities of using transportation as a passenger (a440)

a459 Other specified and unspecified activities of moving around using transportation

a498 Other specified activities of moving around

a499 Unspecified activities of moving around

CHAPTER 5 SELF CARE ACTIVITIES

a510 Activities of washing and drying oneself

coordinated actions and tasks of washing and drying one's whole body, or body parts, using water and appropriate cleaning and drying materials or methods

Inclusions: activities of bathing, showering, washing hands, feet, face, hair, genitals, drying with a towel or dryer, drying hair

Exclusions: activities of caring for body parts (a520), activities related to toileting (a530)

a520 Activities of caring for body parts

actions and tasks of caring for parts of the body, such as skin, face, teeth, scalp, nails, that require more than washing and drying

Inclusions: activities of shaving, trimming hair and nails, styling hair, applying lotions for the skin and scalp, applying make up, brushing teeth, flossing, cleaning dentures, cleaning ears and nose, genitals

Exclusions: activities of washing and drying oneself (a510); activities related to toileting (a530)

a530 Activities related to toileting

coordinated actions involved in planning and performing toileting (urination and defecation) and cleaning oneself afterwards

Inclusions: activities of toilet training, indicating need, regulating toileting needs, finding appropriate toileting area, urinating and defecating, cleaning after toileting, manipulating clothing before and after toileting; activities of planning and excretion by stoma

Exclusions: activities of washing and drying oneself (a510); activities of caring for body parts (a520)

a540 Activities related to menstruation

coordinated actions of planning and caring for menstruation

Inclusions: activities of anticipating menstruation, using sanitary towels and napkins

Exclusions: activities of washing and drying oneself (a510); activities of caring for body parts (a520)

a550 Dressing activities

coordinated actions of putting on and taking off clothes and footwear in sequence and in accord with social setting and climatic condition

Inclusions: activities of putting on, adjusting and removing shirts, skirts, blouses, pants, under garments, saris, kimono, tights, hats, gloves, coats, shoes, boots, sandals, slippers

a560 Activities of eating

coordinated actions of readying food that has been served, bringing it to the mouth, consuming it in culturally acceptable ways

Inclusions: activities of cutting or breaking food into pieces, opening bottles and cans, using eating implements, having meals, feasting, lunching

Exclusion: activities of drinking (a570)

a570 Activities of drinking

coordinated actions of readying drink that has been served, bringing it to the mouth, and consuming it in culturally acceptable ways

Inclusions: activities of mixing, stirring and pouring liquids for drinking, opening bottles and cans, drinking from straw or running water such as a tap or spring, breast feeding

Exclusion: activities of eating (a560)

a580 Activities of looking after one's health

coordinated actions and tasks of ensuring physical comfort, health and physical and mental well-being

Inclusions: maintaining a balanced diet, appropriate level of physical activity, keeping warm or cool, avoiding harms to health, following safe sex practices, such as using condoms, getting immunization, and regular physical examinations and investigations

a598 Other specified self care activities

a599 Unspecified self care activities

CHAPTER 6 DOMESTIC ACTIVITIES

ACTIVITIES OF ACQUIRING NECESSITIES (a610-a629)

a610 Activities of acquiring a place to live

actions and tasks an individual carries out to acquire a place to live, such as selecting, furnishing and arranging a living place that is suitable for one's needs

Inclusions: activities of finding a permanent place to live, buying, renting or leasing a house, apartment or other dwelling; building a place to live such as a hut; organizing the fixtures and furnishings of one's dwelling, arranging furniture; decorating; activities of finding a temporary living area that is suitable

Exclusions: activities of acquiring daily necessities (a620); activities of caring for possessions (a650)

a620 Activities of acquiring daily necessities

actions and tasks of selecting, procuring, transporting and storing all goods and services required for daily living

Inclusion: activities of selecting, procuring, transporting and storing food, drink, clothing, cleaning materials, fuel, household items, utensils, cookingware, plates, domestic appliances, tools; and procuring utilities and other household services

Exclusion: activities of acquiring a place to live (a610)

a629 Other specified and unspecified activities of acquiring necessities

HOUSEHOLD ACTIVITIES (a630-a649)

a630 Activities for preparation of meals

actions and tasks that individuals perform for organizing, planning, preparing and serving food and drink for oneself and others and cleaning the food preparation and eating areas of the house

Inclusions: activities of making a menu; selecting edible food and drink; getting together ingredients for preparing meals; preparing the food and drink for cooking, cooking with heat and preparing cold foods and drinks; baking, frying, steaming, microwaving; serving food; washing pots, pans, plates, and other cooking and eating implements; cleaning kitchen and food and drink preparation areas; cleaning food and drink serving areas

Exclusions: activities of eating (a560); activities of drinking (a570); activities related acquiring daily necessities (a620); housework activities (a640); activities of caring for possessions (a650); activities of assisting others (a660)

a640 Housework activities

actions and tasks that individuals perform for the daily cleaning and arrangment of the living area, its contents and all personal effects, including clothing, with or without use of household appliances

Inclusions: activities of sweeping, mopping, washing counters, walls and other surfaces, collecting and disposing of household garbage; tidying rooms, dusting; collecting, washing, drying, folding and ironing clothes; cleaning footwear; using brooms, brushes and vacuum cleaners; using laundry washing machines, dryers and irons

Exclusions: activities of acquiring a place to live (a610); activities of acquiring daily necessities (a620); activities for preparation of meals (a630); activities of caring for possessions (a650), activities of assisting others (a660)

a649 Other specified and unspecified household activities

ACTIVITIES OF CARING FOR POSSESSIONS AND ASSISTING OTHERS (a650-a669)

a650 Activities of caring for possessions

actions and tasks performed by individuals for maintaining, making and repairing personal possessions, including clothes, house and contents, vehicles, and assistive devices, and caring for plants and animals

Inclusions: activities of making and repairing clothes, taking clothes to the tailor, painting or wallpapering rooms, reroofing the housing, fixing furniture, repairing plumbing, ensuring the proper working order of vehicles, maintaining assistive devices; grooming and feeding pets,domestic animals; watering plants

Exclusions: activities of acquiring a place to live (a610); activities of acquiring daily necessities (a620); housework activities (a640); activities of assisting others (a660)

a660 Activities of assisting others

actions and tasks performed by individuals in order to assist household members and others with their activities of learning, communicating, self care, movements and moving around, domestic activities, and interpersonal activities conducted within the house or outside

Inclusions: activities of assisting others with learning to read, conveying messages, washing, toileting, dressing, eating, with their domestic activities, moving around the house, transferring from place to place, walking, using transportation, making and keeping friends, organizing daily routines

a669 Other specified and unspecified activities of caring for possessions and assisting others

a698 Other specified domestic activities

a699 Unspecified domestic activities

CHAPTER 7 INTERPERSONAL ACTIVITIES

GENERAL INTERPERSONAL ACTIVITIES (a710-a729)

a710 Basic interpersonal activities
basic coordinated actions and behaviours that an individual needs to perform in order to interact with people in a contextual and socially appropriate manner

Inclusions: activities of showing and responding to respect, appreciating, responding to the needs of others, showing appreciation and appropriate tolerance; providing and responding to criticism; responding to social cues and using appropriate physical contact

a720 Complex interpersonal activities
complex or multiple actions and behaviours that an individual needs to perform in order to maintain, regulate and manage interactions with other people in a contextual and socially appropriate manner

Inclusions: activities of maintaining social space, regulating emotions and impulses, regulating verbal and physical aggression; acting independently in social interactions; acting in accordance with social rules and conventions

a729 Other specified and unspecified general interpersonal activities

PARTICULAR INTERPERSONAL ACTIVITIES (a730-a769)

a730 Activities of initiating interaction
complex and coordinated actions and behaviours that an individual needs to perform in order to begin interactions with others or for starting short or long term relationships where appropriate

Inclusions: activities of interacting with strangers, introducing oneself, finding and establishing friendships and professional relationships, starting a relationship that may become permanent, romantic or intimate

a740 Activities of maintaining interaction
complex and coordinated actions and behaviours that an individual needs to perform in order to maintain or sustain interactions or relationships for short or long term, as appropriate

Inclusions: activities of keeping in contact with friends and relatives, being aware of and responding to needs of the other person in the friendship, family, romantic or intimate relationships, sharing benefits and burdens, being available for the other person

a750 Activities of terminating interactions
complex and coordinated actions and behaviours that an individual needs to perform in order to end or bring to a close interactions or relationships that have existed for a short or a long time

a760 Activities of engaging in physical intimacy
complex and coordinated actions that an individual performs in order to initiate and react to the physical expressions of affection and desire and performing sexual intercourse

Inclusions: sexual activities of foreplay, making love; planning and regulating sexual activity

Exclusions: Activities of looking after one's health (a580) -- following safe sex practices

a769 Other specified and unspecified particular interpersonal activities

a798 Other specified interpersonal activities

a799 Unspecified interpersonal activities

CHAPTER 8 PERFORMING TASKS AND MAJOR LIFE ACTIVITIES

GENERAL TASK AND PERFORMANCE DEMAND ACTIVITIES (a810-a839)

a810 Activities of performing a task

simple and complex and coordinated actions, an individual needs to perform that are related to the mental and physical components of overall task performance, such as actions of initiating a task, organizing time and materials for task performance, carrying out and completing a task

Inclusions: activities of initiating a task; pacing task performance; organizing materials for a task; handling distractions while performing a task; performing tasks independently; performing tasks in a group or alone

Exclusions: activities of acquiring skills (a135); problem solving activities (a145); decision making activities (a150); activities of performing multiple tasks (a815); activities of organizing daily routine (a820); activities of sustaining task performance (a825); Activities of Performing in Major Life Situations (a840-a879)

a815 Activities of performing multiple tasks

actions, simple and complex and coordinated, that an individual needs to perform that are related to the mental and physical components of multiple, integrated or complex tasks that need to be carried out in sequence or simultaneously

Inclusions: activities of initiating multiple or complex tasks; planning multiple or complex tasks; handling distractions while performing complex or multiple tasks; pace of performing tasks; organizing time and materials for complex tasks; carrying out complex tasks in appropriate sequence; making adjustments or corrections to planned sequence of activities; managing multiple or complex tasks requiring creativity or ingenuity; performing complex tasks independently; performing complex tasks in a group

Exclusions: activities of acquiring skills (a135); problem solving activities (a145); decision making activities (a150); activities of performing a task (a810); activities of organizing daily routine (a820); activities of sustaining task performance (a825); Activities of Performing in Major Life Situations (a840-a879)

a820 Activities of organising daily routine

simple and complex and coordinated actions that an individual needs to perform in order to plan, manage and complete the requirements of day-to-day routines

Inclusions: activities of keeping and following a daily schedule; budgeting time for day-to-day activities; managing one's level of activity during the day; organizing one's day; keeping appointments

Exclusions: problem solving activities (a145); decision making activities (a150); activities of performing a task (a810); activities of performing multiple tasks (a815); activities of sustaining task performance (a825);activities of handling stress and other psychological demands (830); Activities of Performing in Major Life Situations (a840-a879)

a825 Activities of sustaining task performance

simple and complex and coordinated actions that an individual needs to perform to successfully maintain physical and mental endurance while performing simple and complex tasks, including repetitive, monotonous or prolonged tasks

Inclusions: activities of sustaining the physical requirements of repetitive or prolonged tasks; sustaining the mental requirements of repetitive or prolonged tasks

Exclusions: activities of performing a task (a810); activities of performing multiple tasks (a815); activities of handling stress and other psychological demands (830); Activities of Performing in Major Life Situations (a840-a879)

a830 Activities of handling stress and other psychological demands

simple and complex and coordinated actions that an individual needs to perform to successfully manage and control the psychological demands of task performance requiring significant responsibilities and involving stress, distraction and crises

Inclusions: activities of dealing with responsibilities associated with a task; coping with tension, strain, stress, and danger or difficulty arising during the performance of a task; coping with excessive or multiple demands; coping with conflicts

Exclusions: activities of performing a task (a810); activities of performing multiple tasks (a815); activities of sustaining task performance (a825); activities of responding to unusual situations (a870); Activities of Performing in Major Life Situations (a840-a879)

a839 Other specified and unspecified general tasks and demands

ACTIVITIES OF PERFORMING IN MAJOR LIFE SITUATIONS (a840-a879)

a840 Activities of performing in work

actions, behaviours, and simple and complex tasks an individual needs to perform at work, such as actions and tasks involved in accepting a job, following directions, working alone or in groups, attending, supervising and being supervised, and as well as the complex tasks involved in acquiring, maintaining and leaving jobs

Inclusions: activities of accepting a task related to work; following directions at work; organizing time to complete work tasks; working with other co-workers when it is appropriate or required; attending work on time and regularly as appropriate or required; supervising work done by subordinates, or appropriately responding to supervision by one's work superiors; seeking and finding employment; maintaining and progressing through a job; quitting a job in an appropriate manner

Exclusions: General Task and Performance Demand Activities (a810-a839)

a845 Activities of performing in school

actions, behaviours, and simple and complex tasks an individual needs to perform at school, college, university, technical institution or in any educational setting, such as performing school-related tasts, working in groups, attending as expected, and responding appropriately to supervision

Inclusions: activities of accepting a school task or requirement; following directions; organizing time to complete school tasks or projects; working independent and autonomously; working with other students when it is appropriate or required; attending work with other students when it is appropriate or required; responding to supervision and instruction from one's teacher or other educator

Exclusions: General Task and Performance Demand Activities (a810-a839)

a850 Activities of using money and finance

actions and tasks an individual needs to be able to perform in order to engage in basic and complex economic transactions, such as planning and budgeting, using banks and other financial services, and carrying out complex financial transactions

Inclusions: activities of using money; budgeting and planning expenditures; using banks and other financial services

Exclusions: General Task and Performance Demand Activities (a810-a839)

a855 Activities for performance in recreation

actions, behaviours and simple and complex tasks an individual needs to perform at all forms of recreation or leisure, such as playing, sports, hobbies, artistic pursuits and travelling for pleasure

Inclusions: activities of playing indoor and outdoor games; sporting activities; artistic and cultural activities for leisure, tourist activities

Exclusions: General Task and Performance Demand Activities (a810-a839)

a860 Activities of religious or spiritual pursuits

actions, behaviours and simple and complex tasks required for an individual to carry out religious or spiritual pursuits, in groups or individually

Inclusions: activities of praying alone; attending places of religious worship; following religious or spiritual guidelines in one's daily life

Exclusions: General Task and Performance Demand Activities (a810-a839)

a865 Activities of responding to unusual situations

actions, behaviours and simple and complex tasks required for an respond to unusual, extreme or dangerous situations that arise from natural or human-made events, such as extreme climatic conditions or weather, crises, or wars and conflicts

Inclusions: activities of responding to extreme climatic situations, such as storms, extremes in temperature, humidity or air quality; activities of responding to natural disasters, such as floods, droughts and earthquakes; activities of responding to human-made disasters, such as violence, war, epidemics, environmental catastrophes

Exclusions: General Task and Performance Demand Activities (a810-a839)

a879 Other specified and unspecified activities of performing in major life situations

a898 Other specified activities of performing tasks and major life activities

a899 Unspecified activities of performing tasks and major life activities

PARTICIPATION

Definition: Participation is an individual's involvement in life situations in relation to Health Conditions, Body Functions or Structures, Activities, and Contextual Factors. Participation Restrictions are problems an individual may have in the manner or extent of involvement in life situations.

First qualifier

Uniform qualifier with the negative scale used to indicate the degree of restriction experienced in Participation. Reference point is the *UN Standard Rules on the Equalization of Opportunities for Persons with Disabilities.*

xxx.0	NO restriction (none, absent, negligible...)	0-4 %
xxx.1	MILD restriction (slight, low...)	5-24 %
xxx.2	MODERATE restriction (medium, fair...)	25-49 %
xxx.3	SEVERE restriction (high, extreme, ...)	50-95 %
xxx.4	COMPLETE restriction (total...)	96-100 %
xxx.8	not specified	
xxx.9	not applicable	

Second qualifier
To be developed, possibly to denote subjective satisfaction

CHAPTER 1 PARTICIPATION IN PERSONAL MAINTENANCE

p110 Participation in personal care

involvement in cleanliness of body and body parts, including hair, nails, skin and teeth; access to clean and hygienic disposal of bodily waste, including urine, faeces and menstrual fluids; and maintenance of personal appearance, as a function of the availability and accessibility of personal care resources

Inclusions: opportunities for successful foot care and specific skin care (such as pressure sore management); appropriate bowel and bladder management, stoma and colostomy management; appropriate attire, makeup, accessories and jewellery; having access to toilet or bathroom, having adequate water and cleaning materials

p120 Participation in nutrition

involvement in culturally appropriate and healthy food and drink, and having the means to acquire, store, prepare and consume food and drink as a function of availability and accessibility of nutrition resources

Inclusions: opportunities for successful procurement, storage, preparation and presentation and consumption of foods and fluids including the exercising of a choice; access to vitamins and other dietary supplements; access to specialized feeding techniques such as oral and tube feeding and intravenous hydration, breast-feeding and parental nutrition

Exclusion: participation in health (p140); Participation in nutrition for others (p540)

p130 Participation in necessities for oneself

involvement in culturally appropriate articles of daily personal use, including clothing and footwear, as a function of the availability and accessibility of these necessities

Inclusions: opportunities for the successful acquisition, storage, maintenance of clothing and footwear; access to items of daily personal use, access to modified footwear

Exclusion: participation in nutrition (p120); participation in management of the home and possessions (p520)

p140 Participation in health

involvement in formal and informal health care and health services, both for promotion of good health and prevention of and care for ill-health and injury, as a function of the availability and accessibility of health care services and resources

Inclusions: access to informal advice and traditional knowledge about health; access and use of prenatal services, immunization, and anti-smoking, nutrition, fitness, stress management and behaviour modification programmes; availability of appropriate health care services, including primary, secondary and tertiary care, nursing care, therapeutic and rehabilitative care services

Exclusions: participation in health maintenance for others (p550)

p198 Other specified participation in personal maintenance

p199 Unspecified participation in personal maintenance

CHAPTER 2 PARTICIPATION IN MOBILITY

p210 Participation in mobility within the home

involvement in mobility in and around one's home, movement within a room, or around the whole residence or living area, as a function of the availability and accessibility of appropriate mobility resources or accommodations

Inclusions: having the opportunity for mobility within and at all levels of one's residence, or an attached balcony, courtyard, porch or garden; having an accessible or adapted home; being able to move around one's home as one wishes

p220 Participation in mobility within buildings other than home

involvement in mobility within buildings other than one's residence, including homes of others, offices and other private buildings, community and public buildings and enclosed areas, as a function of the availability and accessibility of mobility resources and accommodations

Inclusions: having the opportunity for mobility throughout all parts of buildings or enclosed areas; access to and use of ramps, stairs, lifts, or escalators; being able to move around buildings, public and private

p230 Participation in mobility outside the home and other buildings

involvement in mobility outside of one's home and other buildings without the use of private, commercial or public transportation, including walking, running and other alternative modes of locomotion outside of buildings, for short and long distances. as a function of the availability and accessibility of appropriate mobility resources and services

Inclusions: having the opportunity for mobility across and down streets in the neighbourhood, town, village or city, between cities, and further distances (without use of private, commercial or public transportation); availability of curb cuts, access and other environmental modifications; being able to move around outside as one wishes and where one wishes to go

Exclusion: participation in mobility with transportation (p240)

p240 Participation in mobility with transportation

involvement in mobility in the wider environment by means of any form of private, commercial or public transportation, as a function of the availability and accessibility of appropriate mobility resources and services

Inclusions: having the opportunity for mobility by means of private forms of transportation such as animals, self-propelled land or water vehicles (bicycles, tricycles, carts, rowing boats,) and motorised land, water or air vehicles (cars, scooters, power boats, aircraft); being eligible for the legal preconditions for the ownership, use and operation of private vehicles (licences, parking permits, and other legal requirements); availability of appropriately designed or outfitted vehicles; or taxis, boats or planes for hire commercially; or public forms of transportation such as buses, coaches, ferries and trains; being permitted to use transportation to be mobile wherever one wishes to go

Exclusions: participation in mobility and transportation for others (p560)

p298 Other specified participation in mobility

p299 Unspecified participation in mobility

CHAPTER 3 PARTICIPATION IN EXCHANGE OF INFORMATION

p310 Participation in spoken exchange of information

involvement in the exchange of information by spoken means, including both the expression and reception of information, as a function of the availability and accessibility of relevant spoken communication resources and services

Inclusions: engagement in communication with others for the exchange of information about needs, feelings, beliefs, abstract thoughts and concepts, and so on, by spoken means; engagement in spoken communication with or without assistive technology or the assistance of an interpreter; engagement in the complete act of communication by spoken means, where what is expressed is understood by all parties to the communication or conversation; having opportunity to express and a willingness by others to listened

p320 Participation in written exchange of information

involvement in the exchange of information by all forms of written material, as a function of the availability and accessibility of relevant written communication resources and services

Inclusions: engagement in communication with others for the exchange of information about needs, feelings, beliefs, abstract thoughts, concepts and so on, by written means; opportunities for written exchange of information by natural languages, Braille or other forms of writing, drawing or pictographs; successful exchange by written means, where what is written is understood as communicated; successful exchange of written information, in any mode (paper or computer screen), with or without assistive technology or the assistance of others, and access to special written material, such as large print; having the opportunity to express by writing and a willingness by others to listened

Exclusion: participation in non-verbal exchange of information (p340)

p330 Participation in exchange of information using formal sign language

involvement in the exchange of information by means of a sign language that is established and formally taught, as a function of the availability and accessibility of relevant formal sign communication resources and services

Inclusions: engagement in exchange of information about needs, feelings, beliefs, abstract thoughts and concepts, and so on by the use of formal sign language, such as American Sign Language, both as signer and as a receiver, including having access to sign interpreters, and signed coverage of the news on TV; opportunities for exchange of information by the means of one's choice

p340 Participation in non-verbal exchange of information

involvement in the exchange of information by non-verbal means, including mime, mimicry, body language, public signs and symbols, drawings and photographs, as a function of acceptance of others and the availability and accessibility of relevant communication resources and services

Inclusions: access to and opportunities for exchange of information about needs, feelings, beliefs, abstract thoughts and concepts, and so on by means of numbers, symbol language such as Bliss Board, publicly understood symbols, shapes or colours, as used in warning signs, traffic signs and lights, and waymaking signs and icons, and drawings, sketches, diagrams, paintings, cartoons and photographs; engagement in exchange of information by the means of one's choice

p350 Participation in exchange of information by means of communication devices and technologies

involvement in the exchange of information by means of having access to devices and technologies, including telecommunication

Inclusions: engagement in the exchange of information about needs, feelings, beliefs, abstract thoughts and concepts, and so on by having access to computers, data banks, TV, radio, telephones, faxes, E-mail and the Internet; access to closed captioning and other accommodations

p398 Other specified participation in exchange of information

p399 Unspecified participation in exchange in information

CHAPTER 4 PARTICIPATION IN SOCIAL RELATIONSHIPS

p410 Participation in family relationships

involvement in the creation and maintenance of family and kinship relationships (parent-child and child-parent relationships, sibling and others); and having the opportunity to fulfil family roles, as a function of being accepted by family members and having access to facilitating resources and services

Inclusions: enjoyment of relationships associated with the nuclear family, extended family, foster and adopted family and step-relationships, as well as foster and adoptive parents, legal guardian, and brother, sister, cousin, nephew, niece, uncle, aunt, grandparent, grandchild, and other more distant relationships such as half-brother and half-sister, second cousin; having the opportunity of participating in the basic family roles, such as father, mother, sister and brother

Exclusion: participation in intimate relationships (p420)

p420 Participation in intimate relationships

involvement in the creation and maintenance of relationships of between individuals, such as man and wife, or other intimate relationships, including romantic, spousal and sexual relationships, as a function of being accepted by others as potential intimate partners and having access to relevant facilitating resources and services

Inclusions: access to and fulfilment of relationships of formal and informal marriages, including participating in initiating relationships by dating, establishing, maintaining and dissolving intimate relationships; access to relationships with a sex worker; being part of romantic or sexual relationship; being able to fulfil oneself through intimate relationships of one's choice

Exclusion: participation in family relationships (p410)

p430 Participation in informal social relationships

involvement in the creation and maintenance of informal relationships such as friends, neighbours, acquaintances, co-inhabitants of residences, peers and strangers, as a function of being accepted as a potential partner in an informal relationship and having access to relevant facilitating resources and services

Inclusions: opportunities for companionship with others and having opportunities to build relationships with friends, casual or enduring, as well as with people who live nearby or in the same community; access to relationships with people who are met casually, or those who live in proximity in boarding houses, institutions, or other communal settings; opportunities for relationships with co-workers, fellow students, playmates, people with similar backgrounds or professions, and strangers; being permitted to fulfil oneself through informal relationships

p440 Participation in formal relationships

involvement in the creation and maintenance of specific relationships in formal settings, as a function of being accepted in that setting and having access to relevant facilitating resources and services

Inclusions: opportunities to develop and cultivate socially or professionally defined relationships such as teacher-student, service provider-client, professional-client, employer-employee, and business partners; being welcome into relationships formally structured by professional roles

p498 Other specified participation in social relationships

p499 Unspecified participation in social relationships

CHAPTER 5 PARTICIPATION IN HOME LIFE AND ASSISTANCE TO OTHERS

p510 Participation in housing for self and others

involvement in appropriate residence for oneself living alone, or with others, either with a family or with some other group, as a function of the availability and accessibility of housing resources and services

Inclusions: access to opportunities for the selection, acquisition (by purchase or rental) of house, apartment or other form of residence; access to government or subsidized housing; access to group homes; having a place to live independently

Exclusions: participation in complex economic transactions (p820) and participation in economic self-sufficiency (p830)

p520 Participation in management of the home and possessions

involvement in the supervision and organization of one's home, its furnishings, and all possessions in the home, including animals and plants, as a function of the availability and accessibility of relevant resources and services

Inclusions: access to opportunities for the selection, acquisition, maintenance and repair of furniture, fixtures, household articles; access to necessities for home and household members; access to other possessions for home living, domestic and pet animals, crops and houseplants; opportunities to clean up one's toy and clean one's room; successfully decorating and arranging one's room and home as one wishes

Exclusion: participation in necessities for oneself (p130)

p530 Participation in caring for others

involvement in the provision of care for other people, including their cleanliness, hygiene, and provision of basic necessities, such as for members of one's family, as a function of the availability and accessibility of relevant resources and services

Inclusions: fulfilling one's responsibilities in providing others with assistance in bathing, washing, clothing, grooming, care for hair and body parts, helping others with their excretory management; helping others with communicating and learning; having opportunities to provide basic necessities for others; having the opportunity to fulfil the role of one who cares for others

Exclusions: participation in personal care (p110); participation in nutrition (p120); participation in non-remunerative work (p740)

p540 Participation in nutrition for others

involvement in the provision of culturally appropriate and healthy food and drink for other people, such as members of one's family, as a function of the availability and accessibility of relevant resources and services

Inclusions: fulfilling one's responsibility in providing food for the family, preparing food and feeding others, such as the elderly, children or persons who need assistance, breast-feeding; having the opportunity to fulfil the role of one who provides nutrition for others

Exclusions: participation in nutrition (p120); participation in caring for others (p530); participation in non-remunerative work (p740)

p550 Participation in health maintenance for others

involvement in the provision of formal and informal health care or health services, both for promotion of good health and prevention of and care for ill-health and injury, for other people, such as members of one's family, as a function of the availability and accessibility of relevant resources and services

Inclusions: fulfilling one's responsibility in giving first aid or medicines, getting people to hospital or clinics, giving informal advice on health care; having the opportunity to fulfil the role of one who provides informal health care to others

Exclusions: participation in health (p140); participation in non-remunerative work (p740)

p560 Participation in mobility and transportation for others

involvement in assisting people in moving around and using transportation, such as for members of one's family, as a function of the availability and accessibility of relevant resources and services

Inclusions: fulfilling one's responsibility in giving support to people moving around the home, pushing wheelchairs down the street, driving people to appointments, getting children to school, assisting others with buses; having the opportunity to fulfill the role of one who provides mobility support for others

Exclusions: participation in non-remunerative work (p740)

p598 Other specified participation in home life and assistance to others

p599 Unspecified participation in home life and assistance to others

CHAPTER 6 PARTICIPATION IN EDUCATION

p610 Participation in education in informal settings

involvement in learning at home or in some other unstructured setting, as a function both of being accepted by others in the setting and the availability and accessibility of educational resources and services

Inclusions: having opportunities for and being able to engage in learning a skill or traditional crafts from one's parents, family members, or others; attainment of an educational or skill level in informal setting; having access to informal education; being part of an informal education experience; being accepted by other students because of an disability awareness program for students and teachers

p620 Participation in education prior to primary school

involvement in any pre-school educational programme aimed at preparing the student for primary school, as a function both of being accepted by others in the setting and the availability and accessibility of educational resources and services

Inclusions: having the opportunities for and being able to engage in programmes such as infant stimulation, pre-school designed for children aged 0-5 years, day-care education and kindergarten; being part of any similar programme designed to move the person to the next stage; attainment of an educational or skill level appropriate for pre-school development and transition to higher levels of education; having access to primary school education; being part of a primary school educational experience

p630 Participation in education in school

involvement in any primary or secondary educational programme, as a function both of being accepted by others in the setting and the availability and accessibility of educational resources and services

Inclusions: having the opportunities for and being able to engage in primary school, secondary or high school or equivalents; attainment of an educational or skill level appropriate for level of educational development and transition to higher levels of education or to employment; having access to primary or secondary educational programmes; being part of a primary or secondary school educational experience

p640 Participation in vocational training

involvement in an educational or training institution for preparation for employment, as a function both of being accepted by others in the setting and the availability and accessibility of educational resources and services

Inclusions: having the opportunities for and being able to engage in technical and polytechnical training programmes, technical diplomas and qualifications; attainment of vocational skill level and transition to other levels of education or to employment; having access to vocational training; being part of a vocational training experience

p650 Participation in higher education

involvement in college, university and professional educational programmes, as a function both of being accepted by others in the setting and the availability and accessibility of educational resources and services

Inclusions: having the opportunities for and being able to engage in a bachelor's, master's or doctoral program, or professional schools such as law, medicine, architecture or engineering; access to all modes of instruction or other educational processes relevant to the programme; attainment of higher education or professional knowledge and skills and transition to other levels of education or to employment; having access to higher education; being part of a higher educational experience

p698 Other specified participation in education

p699 Unspecified participation in education

CHAPTER 7 PARTICIPATION IN WORK AND EMPLOYMENT

p710 Participation in work preparation

involvement in programmes related to preparation for employment, including apprenticeships, internships and in-service training, as a function of the availability and accessibility of employment preparation related resources and services

Inclusions: having the opportunities for and being able to engage in programmes that provide specific training on the job or prepare the person for a first or subsequent job; having work preparation opportunities; being accepted into training, guidance and counselling for work preparation; access to programmes to provide information on creating one's own job, or vocational orientation; preparation involving on-the-job training (apprenticeships, internships or articling), or offering out-placement services and retraining

Exclusion: participation in vocational training (p640)

p720 Participation in self-employment

involvement in any remunerative work which is generated by the individual or contracted from others without a formal employment relationship, as a function of the availability and accessibility of resources and services facilitating or increasing opportunities for self-employment

Inclusion: having the opportunities for self-employment, as in owning one's own business or shop, being a contractor, farmer or commisioned worker; being able to engage in self-employment; having options for self-employment and the means of being part of the self-employed labour force; engagement in work for oneself

p730 Participation in remunerative employment

involvement in all aspects of work relationship for pay, full or part time employment, including initiation, promotion, advancement, termination and retirement, as a function of the availability and accessibility of resources and services facilitating or increasing opportunities for paid work

Inclusions: having the opportunities for remunerative employment, such as working for a salary, wages or commission, work for money or payment in kind, full time job, part time job, factory work, agricultural migratory work, office job, sales and service jobs; being allowed to engage in remunerative employment; having options for remunerative employment and the means for being part of the labour force; engagement in remunerative work

Exclusion: participation in self-employment (p720)

p740 Participation in non-remunerative work

involvement in all aspects of a work relationship in which pay is not provided by an employer, full or part time, including initiation, advancement and termination, as a function of the availability and accessibility of resources and services facilitating or increasing opportunities for unpaid work

Inclusions: having the opportunities for non-remunerative work, such as voluntary work or charity work; being allowed to engage in non-remunerative work and having the means required to be part of the voluntary work force; engagement in voluntary or charity work

Exclusions: Chapter 5 Participation in Home Life and Assistance to Others

p798 Other specified participation in work and employment

p799 Unspecified participation in work and employment

CHAPTER 8 PARTICIPATION IN ECONOMIC LIFE

p810 Participation in basic economic transactions

involvement in any form of simple economic transactions, such as buying, selling or bartering goods and services, as a function of the availability and accessibility of resources and services facilitating or increasing opportunities to engage in simple economic transactions

Inclusions: engagement in the economic transactions of buying and selling, using money or bartering, purchasing goods or services, saving money; being included in economic life as a participant; having economic options for simple transactions; having opportunities to engage in simple economic transactions; having access to the means of engaging in simple economic transactions; being recognized as a part of the nation's economy, for simple transactions

p820 Participation in complex economic transactions

involvement in any form of complex economic transaction that involves the exchange of capital or property, and the creation of profit, as a function of the availability and accessibility of resources and services facilitating or increasing opportunities to engage in complex economic transactions

Inclusions: engagement in complex economic transactions of maintaining a bank account, earning interest on money or goods, trading in stocks, bonds, securities and other debentures, investing, buying and selling land or property, buying and selling, commodities and futures, foreign currency trading, buying and selling insurance; being included in economic life as a participant; having economic options for complex transactions; having opportunities to engage in complex economic transactions; having access to the means of engaging in complex economic transactions; being recognized as a part of the nation's economy, for complex transactions

Exclusion: participation in housing for self and others (p510); participation in remunerative employment (p730)

p830 Participation in economic self-sufficiency

involvement in and having command over economic resources, from private or public sources, in order to ensure economical security for present and future needs, as a function of the availability and accessibility of resources and services facilitating or increasing opportunities to be economically independent and self-reliant

Includes: access to money, real estate, capital investments or other complex economic transactions; command over publicly provided resources such as money or in-kind resources (food stamps, vouchers or chit systems for rehabilitation services); private resources (personal wealth, inheritances, or money from employment or other private sources); being financially self-sufficient; having enough economic resources for a decent life; enjoying economic security

p898 Other specified participation in economic life

p899 Unspecified participation in economic life

CHAPTER 9 PARTICIPATION IN COMMUNITY, SOCIAL AND CIVIC LIFE

p910 Participation in community

involvement in all aspects of community social life, community associations or groups, community social roles, including informal and formal associations, and non-religious ceremonies, as a function of the acceptance by others into community life and the availability and accessibility of resources facilitating or increasing opportunities to engage in community social life

Inclusions: having the opportunity to join and being included in associations of all sorts: those formed by people with common interests, hobbies, ancestry, ethnicity, gender or age, seniors and teen-age groups, political and other forms of advocacy or furtherance of common aims; having appropriate access to formal associations such as legal, medical or other professional groups, political parties, organised advocacy, charitable and political and social issue groups, charitable or non-charitable organizations, service clubs, fraternities and sororities; access to, and being welcomed into non-religious ceremonies such as non-religious marriages, funerals, birthday celebrations, coming-of-age parties, as well as public events such as carnivals and festivals, parades, national or civic ceremonies, ethnic celebrations; fulfilling one's social participation needs; enjoyment of association at the community level; full membership into the community

Exclusions: participation in recreation and leisure (p920); participation in religion and spirituality (p930)

p920 Participation in recreation and leisure

involvement in any form of play, recreational and leisure activity, including sports, games, artistic and cultural activities, crafts, hobbies and tourism, as a function both of the acceptance of others into these recreational and leisure activities and the availability and accessibility of resources facilitating or increasing opportunities to engage fully in these practices and events

Inclusions: having the opportunity to participate in events and programmes for physical fitness, or developing athletic ability, relaxation, amusement or diversion; being welcome into play and games; having access to sports teams; having access to and being included in cultural events in museums, art galleries, cinemas or theatres, artistic or other competitions, crafts, hobbies, playing musical instruments, collecting stamps, coins or antiques, sightseeing, tourism and travel for leisure

Exclusions: Chapter 2 Participation in Mobility (p210-p299)); Chapter 3 Participation in Exchange of Information (p310-p399); Chapter 4 Participation in Social Relationships (p410-p499); Chapter 7 Participation in Work and Employment (p710-p799); Chapter 8 Participation in Economic Life (p810-p899); participation in community (p910), participation in religion and spirituality (p930).

p930 Participation in religion and spirituality

involvement in religious or spiritual activities, organizations and practices for self-fulfilment, finding meaning and establishing connection with others in the world or a divine power, as a function of the acceptance of other members of the religious group or by the doctrine of the religious or spiritual community and the availability and accessibility of resources facilitating or increasing opportunities to engage fully in these practices and events

Inclusions: having the opportunity to join in, and be accepted in, all forms of religious or spiritual life: meditation and reflection, reading and learning the doctrines of a religion, redefining the self and one's role, theistic and non-theistic religions, sects, cults, and other divisions; joining in, as a full participant, in religious practices and customs, rites and rituals, group prayer and other congregational or pastoral activities; fulfilling one's spiritual life as a full participant; being welcomed into a religious community

p940 Participation in human rights

involvement in human rights as recognized by international treaties, declarations, rules and conventions accorded to people by virtue of their humanity alone, as a function of the recognition of other members of society that one enjoys these rights and the availability and accessibility of resources facilitating or increasing opportunities to fully enjoy and gain the benefits of these rights

Inclusions: having the opportunity to enjoy human rights, including the right of equal concern and respect as a human being; enjoyment of the human rights recognised in the United Nations Universal Declaration of Human Rights (1948) and the United Nations Standard Rules for the Equalisation of Opportunities for Persons with Disabilities (1993), the right to self-determination or autonomy, the right to control one's destiny, freedoms of speech and association; having the role and social status of a full human being with rights

Exclusion: participation in citizenship (p950)

p950 Participation in citizenship

involvement in the social, political and legal role of a citizen, and enjoying the rights, protections, privileges and duties associated with that role, including involvement in the political process and civil rights, legal rights, protections and duties, as a function of the recognition of other members of society that one enjoys these rights and privileges, and is accountable to the same duties, and the availability and accessibility of resources facilitating or increasing opportunities to fully enjoy and gain the benefits of being recognized as a full citizen

Inclusions: having access to and opportunities for enjoying all of the rights and freedoms associated with citizenship, such as the rights of freedom of speech, association, religion, protections against unreasonable search and seizure, voting and participating in the political realm; having, and being recognized as having, the rights, privileges and responsibilities of a full citizen; having the status of a citizen; being a voter; having full political standing in one's country; being included as a citizen of the country; being accepted as a citizen; having legally enjoyable rights, including rights to property and self-determination; access to courts, tribunals and legal services; access to the political process; being included in the protections against discrimination; being part of the social system, with all the rights and privileges that go with that status; being accorded equal concern and respect as a full member of society

Exclusion: participation in human rights (p940)

p998 Other specified participation in community, social and civic life

p999 Unspecified participation in community, social and civic life

ENVIRONMENTAL FACTORS

Definition: Environmental Factors make up the physical, social and attitudinal environment in which people live and conduct their lives.

First qualifier

Uniform qualifier, with negative and positive scale to denote extent of barriers and facilitators respectively

xxx-0	NO barriers (none, absent, negligible...)	0-4 %
xxx-1	MILD barriers (slight, low...)	5-24 %
xxx-2	MODERATE barriers (medium, fair...)	25-49 %
xxx-3	SEVERE barriers (high, extreme, ...)	50-95 %
xxx-4	COMPLETE barriers (total...)	96-100 %

xxx+0	NO facilitators (none, absent, negligible...)	0-4 %
xxx+1	MILD facilitators (slight, low...)	5-24 %
xxx+2	MODERATE facilitators (medium, fair...)	25-49 %
xxx+3	SEVERE facilitators (high, extreme, ...)	50-95 %
xxx+4	COMPLETE facilitators (total...)	96-100 %

If a decimal point is used instead of + or – sign, it will be assumed that the qualifier indicates a barrier.

xxx.8 not specified
xxx.9 not applicable

Second qualifier
To be developed

CHAPTER 1 PRODUCTS AND TECHNOLOGY

e110 Products or substances for personal consumption
any natural or human-made object or substance gathered, processed or manufactured for human consumption

Inclusions: products such as food, medications

e115 Products for personal use in daily living
pieces of equipment, or systems of products, processes, methods and technology used to maintain, increase, or improve an individual's function in day to day life

Inclusions: products such as clothes, textiles, furniture, appliances, cleaning products and tools, and related assistive technology such as therapy and training devices, prosthetic and orthotic devices, housekeeping devices, devices for handling products and good; products for personal protection such as security systems, weapons; computer hardware, software, accessories and virtual reality devices aimed at facilitating an individual's function in day to day life and control over their indoor setting (scanners, remote control systems, voice controlled systems, timer switches)

Exclusions: Products for communication (e135),Pproducts for personal mobility and transportation (e140), Products for architectural and building construction (e125), Products for commerce, industry and employment (e150)

e120 Assets
products or objects of economic exchange such as money, goods, property and other valuables which an individual owns or to which he or she has rights of use

Inclusions: products of tangible and intangible property, money and other financial instruments which serve as a medium of exchange for labour, capital, goods and services

e125 Products of architecture, building and construction
products that constitute an individual's indoor and outdoor, human-made environment that are planned, designed and constructed

Inclusions: indoor and outdoor architectural products for all types of buildings, support devices (e.g. rails),, adaptations to doors and windows; home and business construction components (e.g. elevators, fixed and mobile ramps, flooring and safety equipment)

Exclusions: Products and technology for building (e125), Products for communication (e135), Products for mobility and transportation (e140), Products for education (e145), Products for commerce, industry, employment (e150), Products for recreation and sport (e155), Products for culture and religion (e160)

e130 Products of land development
products that constitute an individual's immediate environment that have been affected or changed by land use policies, design, planning and development of space

Inclusions: areas of land that have been organized by land use policies, such as rural areas, suburban areas, urban areas, parks, conservation areas and wildlife reserves

Exclusions: Land use planning services (e520) and Land use planning systems and policies (e615)

Exclusions: Land use planning services (e520) and Land use planning systems and policies (e615)

e135 Products for communication

pieces of equipment, or systems of products, processes, methods and technology used to maintain, increase, or improve an individual's transmission of messages, information and signalling

Inclusions: products such as optical and auditory devices, audio recorders and receivers, television and video equipment, telephone devices, sound transmission systems and face-to-face communication devices, and related assistive technology such as specialised vision devices, electro-optical devices, specialised writing devices, drawing or handwriting devices, signalling systems and computer devices

e140 Products for personal mobility and transportation

pieces of equipment, or systems of products, processes, methods and technology used to maintain, increase, or improve an individual's ability to move around indoors and outdoors

Inclusions: products of transportation such as motorised and non-motorised vehicles used for the transportation of people and transportation routes used by people for movement over ground, water and air (e.g. railways, highways, airports, harbours, canals, and related assistive technology such as devices for personal mobility and transportation (e.g. walking devices, special cars and vans, adaptations to vehicles, wheelchairs, transfer devices and animals used for personal mobility and transportation

e145 Products for education

pieces of equipment, or systems of products, processes, methods and technology used for acquisition of knowledge, expertise or skill

Inclusions: products that are used for education at any level such as books, manuals, educational toys, computer hardware, software (e.g. CD ROM), accessories and virtual reality devices aimed at facilitating the educational process and related assistive technology

Exclusions: Products for communication (e135)

e150 Products for commerce, industry and employment

pieces of equipment, or systems of products, processes, methods and technology used in the business, work and manufacturing sectors to facilitate the conduct of specific tasks

Inclusions: products such as tools, machines, office equipment and other physical resources, and related assistive technology; computer hardware, software, accessories and virtual reality devices aimed at facilitating an individual's conduct of work-related tasks and aimed at control of the work environment (e.g. scanners, remote control systems, voice controlled systems, timer switches)

Exclusions: Products of buidling and construction (e125)

e155 Products for recreation and sport

pieces of equipment, or systems of products, processes, methods and technology used for the conduct and enhancement of recreational activities

Inclusions: general products such as toys, skis, tennis balls, sport guns and rifles, musical instruments, and related assistive technology such as modified mobility devices for sports, adaptations for musical and other artistic performance.

Exclusions: Products for personal use in daily life (e115).

e160 Products for culture and religion

objects, unique or mass-produced that are given, or take on a symbolic meaning in the context of culture or religion

Inclusions: objects such as a spirit house, maypole, and headdress, masks, crucifix, menorah and prayer mat

e198 Other specified products and technology

e199 Unspecified products and technology

CHAPTER 2 NATURAL ENVIRONMENT AND HUMAN MADE CHANGES TO ENVIRONMENT

e210 Physical geography
features of land forms and bodies of water

Inclusions: features of geography included within orography (relief, quality and expanse of land and land forms including altitude) and hydrography (bodies of water)

e215 Population
groups of people living in a given environment who share the same pattern of environmental adaptation, which are self-regulating and help to maintain the overall stability of an ecosystem

features of population or demographic change, such as the composition and variation in the total number of individuals of a given population in an area caused by birth, death and migration; and population density (number of people per unit of land area)

e220 Flora and fauna
plants and animals

Exclusions: Domesticated animals (e350)

e225 Climate
meteorological features and events, weather

Inclusions: temperature, humidity, air pressure, seasonal variation, precipitation and day-to-day weather conditions such as wind, rain or snow

Exclusions: Natural events (e230)

e230 Natural events
geographic and atmospheric changes that cause disruption in an individual's physical environment, occuring regularly or irregularly

Inclusions: earthquakes and severe or violent weather conditions such as tornadoes, hurricanes, typhoons, floods, forest fires, ice-storms

e235 Human-caused natural events
alterations or disturbances in the natural evironments, caused by humans, that may result in the disruption of people's day to day lives

Inclusions: events or conditions linked to conflict and wars, such as the displacement of people, destruction of social infrastructure, homes and lands; environmental disasters, such as land, water or air pollution, toxic spills

e240 Light
electromagnetic radiation by which things are made visible

Inclusions: sunlight and artificial lighting

e245 Time-Related Changes
natural, regular or predictable temporal change

Inclusions: day/night cycles and seasonal time-related changes

e250 Sound

sonorous phenomenon such as banging, ringing, thumping, whistling, yelling or buzzing, at any volume, timbre or tone

Inclusions: noise level and sound quality. banging, ringing, thumping, whistling, yelling, or buzzing at any volume and timber or tone

e255 Vibration

regular or irregular motion to and fro of an object or an individual caused by a physical disturbance

Inclusions: shaking, quivering, quick jerky movements of things, buildings or people caused by small or large equipment, aircraft, and explosion

Exclusions: Natural events (e230), such as vibration or shaking of the earth caused by earthquakes

e260 Air Quality

characteristics of the atmosphere or enclosed areas of air

Inclusions: indoor and outdoor air quality, as affected by odour, smoke, humidity, such as secondary smoke exposure, ozone levels, and other features of the atmosphere

e298 Other specified elements of the natural environment

e299 Unspecified elements of the natural environment

CHAPTER 3 SUPPORT AND RELATIONSHIPS

e310 Immediate family
individuals related by birth, marriage, or other relationship recognized by the culture as immediate family

Inclusions: spouses, parents, siblings, children, foster parents, adoptive parents and grandparents

Exclusions: Extended family (e315); personal care providers and personal assistants (e340)

e315 Extended family
individuals related through family or marriage or other relationships recognised by the culture as extended family

Inclusions: aunts, uncles, nephews.

Exclusions: Immediate family (e310).

e320 Friends
individuals who are close and on-going acquaintances in relationships characterised by trust and mutual support

e325 Acquaintances, peers, colleagues, neighbours and community members
individuals who are familiar to each others as acquaintances, peers, colleagues, neighbours, and community members, in situations of work, school, recreation, by means of communication systems, such as telephone, tty, internet, email, or other aspects of life, and who share demographic features such as age, gender, religious creed or ethnicity, or pursue common interests

Inclusions: formal and informal relationships arising from sharing of some common activities or interests.

Exclusions: Associations and organisational services (e555).

e330 People in positions of authority
individuals who have decision-making responsibilities for others and who have socially defined influence or power based on their social, economic, cultural or religious roles in society

Inclusions: teachers, employers, supervisors, religious leaders, substitute decision-makers, guardians, trustees.

e335 People in subordinate positions
individuals whose day-to-day life is influenced by people in positions of authority in work, school or other settings

Inclusions: for example, students, workers, and members of a religious group.

Exclusions: Immediate family (e310).

e340 Personal care providers and personal assistants

individuals who provide services as required to support individuals in their daily activities, maintenance or performance at work, education or other life situation, provided either through public or private funds, or else on a voluntary basis

Inclusions: providers of home-making and maintenance, personal assistants, transport assistant and other support needs ,pay help ,nanny and others who function as primary caregivers.

Exclusions: Immediate family (e310); Acquaintances, peers, colleagues, neighbours, and community members (e325).

e345 Strangers

individuals who are unfamiliar and unrelated, or those who have not yet established a relationship or association

Inclusions: persons unknown to the individual who are sharing a life situation with them such as substitute teachers, co-workers, care providers.

e350 Domesticated Animals

animals that provide physical, emotional or psychological support

Inclusions: domestic pets (dogs, cats, birds, fish, etc.); farm animals and livestock, animals for personal mobility and transportation.

Exclusions: Flora and fauna (e220)

e398 Other specified types of support and relationship

e399 Unspecified types of support and relationships

CHAPTER 4 ATTITUDES, VALUES AND BELIEFS

e410 Individual attitudes

general or specific opinions and viewpoints of particular individuals about other individuals - and social, cultural or sub-cultural groups of individuals - or about other matters, such as social, political and economic issues, that influence individual behaviour and actions

Inclusions: individual attitudes about another individual's (or group of individuals') trustworthiness, and value as a human being such as may motivate positive, honorific practices, or negative and discriminatory practices (e.g. stigmatizing, stereotyping and marginalizing of an individual by others such as a co-workers, a teacher, or a community member)

e420 Individual values

views, positions or beliefs that particular individuals hold about the importance, significance, or evaluation - moral, aesthetic, cultural, or political - about the traits, characteristics or other features of individuals (or groups of individuals), or more generally about what is of value, positively or negatively

Inclusions: individual values about the moral worth of other people; values about individual beauty or appropriate or inappropriate behaviour; values about the importance or significance of life situations (e.g. work, school, religious practice, community associations); values about human rights, or political arrangements (e.g. democracy, equality); values about economic arrangements (e.g. cost effectiveness, efficiency).

e430 Individual beliefs

general or specific assertions and statements about what is true or false to which an individual will give assent, that influence individual behaviour and actions

Inclusions: individual beliefs about human nature and matters of fact; systems of beliefs about the world, whether confirmable or not (e.g. myths, scientific theories).

e440 Societal attitudes

general or specific opinions and viewpoints generally held by people of a culture, society or other social group about other individuals -- and social, cultural or sub-cultural groups of individuals - or about other matters, such as social, political and economic issues, that influence group or individual behaviour and actions

Inclusions: societal attitudes about moral worth, trustworthiness, and value as human beings, and the conveyance of these attitudes either in positive or honorific practices, or in negative and discriminatory practices (e.g. stigmatizing, stereotyping and marginalizing by society in general).

e450 Societal values

views, positions or beliefs generally held by people of a culture, society or other social group about the importance, significance, or evaluation - moral, aesthetic, cultural, or political - about the traits, characteristics or other features of individuals (or groups of individuals), or more generally about what is of value, positively or negatively

Inclusions: societal values about the moral worth of other people; values about individual beauty or appropriate or inappropriate behaviour; values about the importance or significance of life situations (e.g. work, school, religious practice, community associations); values about human rights, or political arrangements (e.g. democracy, equality); values about economic arrangements (e.g. cost effectiveness, efficiency.

e460 Societal beliefs

general or specific assertions and statements about what is true or false to generally held by people of a culture, society or other social group that influence group or individual behaviour and actions

Inclusions: societal beliefs about human nature and matters of fact; systems of beliefs about the world, whether confirmable or not (e.g. myths, scientific theories).

e470 Social norms, conventions and ideologies

customs, conventions, rules and abstract systems of values and normative beliefs (e.g. ideologies, philosophies) that arise within social contexts and which affect or create societal and individual beliefs, values and attitudes

Inclusions: social norms of moral, etiquette and religious behaviour; religious doctrine and resulting norms and conventions; norms governing rituals or social gatherings, and informal conventions governing behaviors during emergencies.

e498 Other specified attitudes, values and beliefs

e499 Unspecified attitudes, values and beliefs

CHAPTER 5 SERVICES

e510 Services for the production of consumer goods

services and programs for the collection, creation, production and manufacturing of consumer goods and products, including those who provide these services

Inclusions: production and manufacturing services for products and technology used for mobility, communication, education, transportation and home delivery

Exclusions: Communication services (e535); education services (e580)

e515 Architecture, building and construction services

services and programs for design, construction and maintenance of residential, commercial, industrial and public buildings, including those who provide these services

Inclusions: services that implement and operationalize design principles, building codes, regulations and standards

Exclusions: Architecture, building and construction systems and policies (e610), such as legislation, regulation and policies established to regulate and monitor the programs and services

e520 Open space planning services

services and programs aimed at planning, creating and maintaining urban, rural, recreational and conservation space, meeting and commercial open spaces (plazas, open air markets) and pedestrian and vehicular transportation routes for intended uses, including those who provide these services

Inclusions: services for planning, designing, development and preservation of open space and specifically for rural, suburban, urban, parks conservation areas and wildlife reserve planning

Exclusions: Open spaces planning systems and policies (e615), such as regulations, zoning, planning acts; (e615); Architecture, building and construction systems and policies (e610)

e525 Housing services

services and programs aimed at locating, providing and maintaining houses or shelters for persons to live in, including those who provide these services

Exclusions: Housing systems and policies (e620)

e530 Utilities services

services and programs supplying to the population as a whole with essential energy, sanitation and emergency repair support, including those who provide these services

Inclusions: water, fuel, electricity, and sanitation services, pedestrian and vehicle transportation, essential services (e.g. emergency repair services, sanitation services for residential and commercial consumers)

Exclusions: Legal systems and policies (e645), such as emergency services for fire and police

e535 Communication services

services and programs aimed at transmitting information by a variety of methods including telephone, fax, post office, electronic mail and other computer based systems, including those who provide these services

Inclusions: telephone relay services, teletype services, modems, teletext services

Exclusions: Media services (e560)

e540 Transportation services
services and programs aimed at moving persons or goods by road, paths, rail, air or water, including those who provide these services

Inclusions: services for transportation planning and development

e545 Civil protection services
services and programs organised by the community and aimed at safeguarding people and property, including those who provide these services

Inclusions: fire, police, emergency and ambulance services

Exclusion: Political systems and policies (e685), such as the military system

e550 Legal services
services and programs aimed at providing the authority of the state as defined in law, including those who provide these services

Inclusions: courts, tribunals and other agencies for hearing and settling civil litigation and criminal trials, attorney representation, services of notaries, mediation, arbitration and correctional or penal facilities

Exclusion: Legal systems and policies (e645)

e555 Associations and organizational services
services and programs provided by people who have joined together in the pursuit of common non-commercial interests with people who have the same interests, where the provision of such services may be tied to membership

Inclusions: associations and organisations providing recreational and leisure, sporting, cultural, religious and mutual aid services; services of professional associations

e560 Media services
services and programs aimed at providing mass communication, including those who provide these services

Inclusions: radio, television, close captioning services, press reporting services, newspapers, Braille services, computer based mass communication (web, internet)

Exclusions: Communication services (e535); Media systems and policies (e655

e565 Economic services
services and programs aimed at the production, distribution, consumption and use of goods and services, including those who provide these services

Inclusions: the private commercial sector, including businesses, corporations, private for-profit ventures; the public sector, including public, commercial services such as co-operatives and crown corporations; financial organisations, such as banks and insurance services

Exclusions: Utilities services (e530); Economic systems and policies (e660); labour and employment services (e585)

e570 Social security services

services and programs aimed at providing income support to people who, because of age, poverty, unemployment, health condition or disability, require public assistance that is funded either by general tax revenues or contributory schemes, including those who provide these services

Inclusions: services of determining eligibility, delivering or distributing assistance payments for the following types of programs - social assistance programs (e.g. non-contributory welfare, poverty or other needs-based compensation), social insurance programs (e.g. contributory accident or unemployment insurance), and disability and related pension schemes (e.g. income replacement)

Exclusions: Health services (e575), such as programs for which eligibility is determined exclusively by reference to special needs arising from a health condition or disability

e575 Health services

services and programs at a local, community, regional, state or national level, aimed at delivering interventions to individuals for their physical, psychological and social well-being, including those who provide these services

Inclusions: health promotion and disease prevention services, primary care services, acute care, rehabilitation and long term care services; services that are publicly or privately funded, delivered on a short-term, long-term, periodic or one time basis, in a variety of service settings such as community, home-based, school, work, general hospitals, speciality hospitals, clinics, residential care facilities

Exclusion: Health systems and policies (e670)

e580 Education and training services

services and programs concerned with education and the acquisition, maintenance and improvement of knowledge, expertise and vocational or artistic skills, including those who provide these services

Inclusions: services provided for different levels of education -- pre-school, primary school, secondary school, post-secondary institutions, professional programs, training and skills programs, apprenticeships, continuing education

Exclusion: Education and training systems and policies (e675)

e585 Labour and employment services

services and programs provided by local, regional or national governments, or private organizations to find suitable work for persons who are unemployed or looking for different work, or to support individuals already employed who are seeking promotion, including those who provide these services

Inclusions: services of employment search and preparation, reemployment, job placement, outplacement, vocational follow/up, occupational health and safety services, work environment services such as ergonomics, human resources and personnel management, labour relations services, professional association services.

Exclusions: Labour and employment systems and policies (e680), such as labour or trade unions, employment creation, labour and employment policies, labour market

e598 Other specified services

e599 Unspecified services

CHAPTER 6 SYSTEMS AND POLICIES

e610 Architecture, building and construction systems and policies
legislation, regulations and standards, together with associated administrative control and monitoring mechanisms that govern the planning, design, construction and maintenance of residential, commercial, industrial and public buildings

Inclusions: building codes, construction standards, fire and life safety standards

Exclusion: Architecture, building and construction services (e515)

e615 Open spaces planning systems and policies
legislation, regulations and standards, together with associated administrative control and monitoring mechanisms that govern the planning, design, development and maintenance of open space, including rural land, suburban land , urban land, parks conservation areas and wildlife reserves

Inclusions: local, regional or national planning acts, design codes, heritage or conservation planning policy

Exclusion: Open spaces planning services (e520)

e620 Housing systems and policies
legislation, regulations and standards, together with associated administrative control and monitoring mechanisms that govern the housing or shelter for people

Inclusions: legislation and policies for determination of eligibility for housing or shelter, policies concerning government involvement in developing and maintaining housing., and policies concerning how/where housing is developed

Exclusion: Housing services (e525).

e625 Utilities systems and policies
legislation, regulations and standards, together with associated administrative control and monitoring mechanisms that govern the provision of utilities services

Inclusions: health and safety standards governing delivery and supply of water and fuel, the sanitation practices in communities and the policies for emergency repair and supply during shortages or natural disasters

Exclusion: Utilities services (e530)

e630 Communication systems and policies
legislation, regulations and standards, together with associated administrative control and monitoring mechanisms that govern the transmission of information by a variety of methods including telephone, fax, post office, electronic mail and computer based systems

Inclusions: eligibility for access to communication systems and products based on needs or limitations; the requirements for an individual to have an address or postal box in order to receive mail or other documents such as a compensation cheque.

Exclusion: Communication services (e535)

e635 Transportation systems and policies
legislation, regulations and standards, together with associated administrative control and monitoring mechanisms that govern the moving of persons or goods by road, paths, rail, air or water

Inclusions: transportation planning acts and policies, eligibility for operating vehicles, health and safety standards related to use of different types of transportation, policies for the provision and access to public transportation.

Exclusions: Health systems and policies (e670); Social security systems and policies (e665, such as for provision and access to vehicles and personal mobility devices.

e640 Civil protection systems and policies
legislation, regulations and standards, together with associated administrative control and monitoring mechanisms that govern the safeguarding of people and property

Inclusions: policies governing provision of police, fire, emergency and ambulance services

Exclusion: Civil protection services (e545)

e645 Legal systems and policies
legislation, regulations and standards, together with associated administrative control and monitoring mechanisms that govern the administration of justice

Inclusions: formal rules, such as laws, regulation, customary law, religious law, international laws and convention

Exclusions: Legal services (e550); political systems and policies (e685)

e650 Associations and organizational systems and policies
legislation, regulations and standards, together with associated administrative control and monitoring mechanisms that govern the relationships and activities of people coming together with common non-commercial interests

Inclusions: policies and standards that govern the establishment and conduct of associations and organisations such as mutual aid organisations, cultural and religious associations

Exclusion: Associations and organizational services (e555)

e655 Media systems and policies
legislation, regulations and standards, together with associated administrative control and monitoring mechanisms that govern the provision of news and information to the general public

Inclusions: policies and standards that govern the content, distribution, dissemination, access to and methods of communicating via radio, television, press reporting services, newspapers and computer based mass communication (web, internet). Other examples include requirements to provide closed captions on television, newspapers or other publications in Braille or tele-text radio transmissions

Exclusion: Media services (e560)

e660 Economic systems and policies
legislation, regulations and standards, together with associated administrative control and monitoring mechanisms that govern the production, distribution, consumption and use of goods and services

Inclusions: economic doctrine and development

Exclusion: Economic services (e565)

e665 Social security systems and policies
legislation, regulations and standards, together with associated administrative control and monitoring mechanisms that govern the programs and schemes that provide income support to people who, because of age, poverty, unemployment, health condition or disability require public assistance

Inclusions: legislation and regulation governing the eligibility for social assistance, welfare, unemployment insurance payments, disability and related pensions and disability benefits

Exclusions: Health systems and policies (e679) such as health policies that refer exclusively to special needs arising from a health condition or disability; Social security services (e570)

e670 Health systems and policies
legislation, regulations and standards, together with associated administrative control and monitoring mechanisms that govern the range of services provided to individuals for their physical, psychological and social well-being, in a variety of settings including community, home-based, school, work, general hospitals, speciality hospitals, clinics, residential and non-residential care facilities

Inclusions: policies and standards that determine eligibility for services, compensation for devices, assistive technology or other adaptive equipment, and legislation such as health acts that govern features of a health system such as accessibility, universality, portability, public funding and comprehensiveness

Exclusion: Health services (e575)

e675 Education and training systems and policies
legislation, regulations and standards, together with associated administrative control and monitoring mechanisms that govern the delivery of education programs

Inclusions: policies and standards that determine eligibility for public or private education and special needs-based programs; local, regional or national boards of education or other authoritative bodies that govern features of the education systems such as size of classes, numbers of schools in a region, fees and subsidies, special meal programs or after-school care services

Exclusion: Education and training services (e580)

e680 Labour and employment systems and policies
legislation, regulations and standards, together with associated administrative control and monitoring mechanisms that govern the distribution of occupations and other forms of remunerative work in the economy

Inclusions: standards and policies for employment creation, employment security, designated and competitive employment, labour standards and law, and trade unions

Exclusion: Labour and employment services (e585)

e685 Political systems
the structures and related operations that organise political and economic power in a society, such as executive and legislative branches of government, and the constitutional or other legal sources from which they derive their authority

Inclusions: political organizational doctrine, constitutions, agencies of executive and legislative branches of government, the military

Exclusion: Legal systems and policies (e645)

e698 Other specified systems and policies

e699 Unspecified systems and policies