Model Disability Survey

UN Sub-Regional Meeting on Disability Measurement and Statistics in support of the 2030 Agenda for Sustainable Development and the 2020 World Population and Housing Census Programme
Almaty, Kazakhstan, 6-8 June 2017

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1. Conceptual basis
2. Measurement
3. Available versions
4. Implementations
International Classification of Functioning, Disability and Health
Disability (or functioning) as the outcome of the interaction between health conditions or impairments and environmental factors
<table>
<thead>
<tr>
<th>Dimensions of functioning</th>
<th>Dimensions of disability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body functions</td>
<td>Impairments</td>
</tr>
<tr>
<td>Activities</td>
<td>Activities limitations</td>
</tr>
<tr>
<td>Participation</td>
<td>Participation restrictions</td>
</tr>
</tbody>
</table>
Stroke

Environmental Factors

Memory
Fatigue
Sleep

Self-care
Mobility
Communication

Work
Social life
Relationships

FUNCTIONING/DISABILITY

Environment Factors
Disability as a continuum, ranging from low to high levels
Stroke

Disability

Accessibility of transportation
Family and social support
Accessibility to good quality treatment
Assistive products
MDS goes beyond focusing on persons with physical or sensory impairments (e.g. blindness, deafness, lack of a limb)

- REPRESENTATIVE SAMPLE GENERAL POPULATION
- NO FILTERS ARE APPLIED
Disability

Number of persons

Low | Disability | Extreme

15%
1. Conceptual basis
2. Measurement
3. Available versions
4. Implementations
How to operationalize disability for measurement purposes?
Key ICF Concepts

**Capacity**
Inherent or intrinsic feature of a person to do an action or execute a task “under the skin”

**Performance**
Doing of an action or execution of a task in the actual context of the individual “lived experience”
Capacity

Intrinsic capacity of the body

Performance

Result of the interaction of capacity with the environment and the person

Nico Calabria
https://www.youtube.com/watch?v=IjDL3lbOGBs
Missing limb
Health Condition
CAPACITY
Missing limb
Health Condition

PERFORMANCE = DISABILITY

Environmental Factors
Section 3000
(A+B)
Environmental factors

Section 4000
Performance

Section 5000
Health Conditions & Capacity
1. Conceptual basis
2. Measurement
3. Available versions
4. Implementations
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Time frame</td>
<td>Every 5 to 10 years</td>
<td>Flexible, continuous</td>
</tr>
<tr>
<td>Length</td>
<td>60 – 120 minutes</td>
<td>10-15 minutes</td>
</tr>
<tr>
<td>Number of modules</td>
<td>8</td>
<td>3 (core)</td>
</tr>
<tr>
<td>Context</td>
<td>Stand alone survey national or regional implementations</td>
<td>Integration in health and further specific surveys</td>
</tr>
</tbody>
</table>
MDS Full version

Section 3000 (A+B)
Environmental factors

Section 4000
Performance

Section 5000
Health Conditions & Capacity

Brief MDS

15 questions

12 questions

13 questions
Development Brief MDS

- Model Disability Survey
- First national implementations: Chile, Sri Lanka
- Dec 2015 Technical expert consultation
- Jan to July 2016 Statistical analyses
- August 2016 Brief MDS available
1. To estimate and monitor changes on the **continuum of disability**:

   a. in the country through general population surveys, such as health surveys
   
   b. for specific populations through specific surveys, such as labour force surveys
Sri Lanka

Capacity

Performance

0

No problems

100

Extreme problems

0

100

No problems

Extreme problems

Capacity score

Performance score

Frequency

No
Mild
Moderate
Severe

Frequency

No
Mild
Moderate
Severe

CAPACITY

PERFORMANCE
Are levels of disability higher in women than in men?

Sri Lanka
2. To define who experiences mild, moderate or severe disability for **disaggregation purposes**
GOAL 8

Indicator 8.5.2: Unemployment rate, by sex, age and persons with disabilities

Chile

% unemployed

Severe
- Severe: 65.84%

Moderate
- Moderate: 54.23%

Mild
- Mild: 45.55%

No
- No: 47.95%

Severe
- Severe: 54.79%

Moderate
- Moderate: 31.58%

Mild
- Mild: 20.87%

No
- No: 19.41%
3. To deliver **basic** information on features of **environmental barriers** and **needs** associated with different levels of disability.

- Hindering aspects of the general environment (4 questions)
- Family and social support (3 questions)
- Attitudes of others (2 questions)
- Use and need of personal assistance (3 questions)
- Use and need of assistive devices (3 questions)
1 Introduction

The implementation guide has been prepared for users of the Brief version of the Model Disability Survey (MDS), a general population survey developed by the World Health Organization and the World Bank in collaboration with a diverse group of stakeholders. The MDS is grounded in the International Classification of Functioning, Disability and Health (ICF) and its core goals are to:

- Provide detailed and nuanced information on the lives of people with disability;
- Allow comparison between groups with differing levels and profiles of disability; and
- Provide the evidence needed by policy-makers to identify which interventions are required to optimize the inclusion and functioning of people with disability.

While the MDS is a full general population survey, the Brief version of the MDS was developed to be integrated in health and other specific surveys to guarantee easy and straightforward, continuous monitoring of functioning and disability in a region or country.

The Brief MDS includes therefore only fundamental MDS modules necessary to describe disability – module 2000 environmental factors; module 4000 functioning; and module 5000 capacity and health conditions – and a reduced number of questions.

At the Brief MDS as a stand-alone survey, this implementation guide does not include usual manual information, for example how to conduct interviews or approach households, but focuses on introducing the Brief MDS and its goals as well as on providing a straightforward question-by-question guide.

A detailed manual of the Model Disability Survey (MDS) is available on request from leel@who.int.

2 How is disability defined in the Model Disability Survey?

The definition of disability in a survey is of core importance because it will influence the generated estimates, for instance the role of persons with severe disability in the MDS – an ICF based survey – disability is understood as:

- The outcome of an interaction between a person’s health condition(s) and the physical, human-built, attitudinal and socio-political environment in which the person lives. It is not solely the result of an internal attribute of the person due to impairments or health conditions.
- A continuum, ranging from no disability (or full functioning) to very high levels of disability. Disability is therefore a matter of degree, and the experience of disability is diverse and universal.
- Biologically neutral. The nature and degree of disability cannot be directly inferred from health conditions. Biologically neutral ensures parity between disability arising from physical and mental health conditions.

3 How is disability measured in the Model Disability Survey?

For disability measurement purposes, two key ICF concepts are used in the MDS: capacity and performance. Capacity is the synthesis of all the intrinsic physical and mental functioning of a person, determined by his or her health conditions or impairments. Persons with especially severe capacity difficulties have specific needs that must be addressed to avoid severe problems with performance. Performance represents the outcome of the interaction between the individual’s capacity and features of the physical, human-built, attitudinal and socio-political
1. Conceptual basis
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PILOT STUDIES

- **CAMBODIA** 2014
  - N=500 adults

- **MALAWI** 2014
  - N=500 adults

- **OMAN** 2016
  - N ≈ 300 adults

- **PAKISTAN** 2015
  - N=4000 adults

- **BRAZIL** 2017
  - N=2.000, in preparation

- **PAKISTAN** 2015
  - N≈4000 adults

- **OMAN** 2016
  - N ≈ 300 adults

- **MALAWI** 2014
  - N=500 adults

- **BRAZIL** 2017
  - N=2.000, in preparation
NATIONAL SURVEYS

- CHILE 2015
  N=12,000 adults

- SRI LANKA 2015
  N=3,000 adults

- PHILIPPINES 2017
  N=20,000 adults

- PANAMA 2017
  In preparation

- COSTA RICA 2017
  In planning

- OMAN 2017
  In planning

- QATAR 2017
  In preparation
REGIONAL SURVEYS

PAKISTAN
Tehsil Pindi Gheb
2017, in preparation

UNITED ARAB EMIRATES
Dubai
2017, in planning

CAMEROON
Adamawa
2016, N≈800
Any questions?
Thank you for your attention

Long and brief MDS available at:
http://www.who.int/disabilities/data/mds/en/