ISSUES AND RECOMMENDED APPROACHED FOR USING DISABILITY VARIABLES FOR EDUCATION INDICATORS IN HOUSEHOLD SURVEYS

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1. Objective

This paper aims to 1) introduce the concept and approach of child and adult functioning questions developed by the U.N. Washington Group on Disability Statistics and UNICEF for household surveys; 2) identify issues with disability disaggregation of education statistics, and 3) recommend solutions to disaggregation issues caused by varying age groups used to define functional difficulties.

2. Background

As access to education increases around the world, so does the concern about schools providing the necessary support to children with disabilities. Too frequently, unaccommodating environments for students with functional difficulties prevent them from making the most of their educational opportunities. In many countries data on these disadvantaged children and how they participate in school may be absent or lack comparability.

To address this, the Washington Group on Disability Statistics in collaboration with UNICEF developed two tools designed to provide cross-national comparable disability data. These tools are the Washington Group Short Set questions (WG-SS) and the WG/UNICEF module on child functioning (CFM). Both these tools collect information on functional difficulty for different age groups and can be added to various household surveys. Moreover, in March 2017, a joint statement issued by multiple UN agencies, member states, organizations of persons with disabilities, and other stakeholders recommended the CFM as the appropriate tool for SDG data disaggregation for children. Considering this, to better provide data for SDG 4.5.1, this paper explores some implications of using the different WG tools to collect information on disability.

2.1. Understanding functional difficulty as collected by the WG-SS and WG/UNICEF module on child functioning

The data collected through the WG-SS and WG/UNICEF module on child functioning provides information on functional difficulty. For individuals with functional difficulty, an accommodating environment is key. An accommodating environment may include provisions for glasses, or ramps, or braille, depending on the difficulty, which allows them to participate equally in life and society.

Figure 1 An example showing the link between functional difficulties and disabilities
2.2. Washington Group Short Set on Functioning (WG-SS)\(^1\)

The WG-SS questions use the World Health Organization's International Classification of Functioning, Disability, and Health (ICF) as a conceptual framework. The WG-SS questions on functioning has been designed in a way that it can be included in, both, national censuses and surveys among adult populations. These questions focus on measuring functional difficulties in six basic, universal actions (capabilities) that, in an unaccommodating environment would place an individual at risk of restricted social participation. The motivation for the six functional domains was to provide insights into whether persons with functional difficulties participate to the same extent as persons without disabilities in activities such as education, employment or family/civic life. Information on access to education and employment is key as data analysis is able to provide information on whether persons identified with difficulties or limitations in these six basic functional domains have participation rates equal to those without limitations.

In short, the use of WG-SS is to a) capture the representation of the majority, but not all, persons with limitation in basic actions for the selected adult age group, b) capture the representation of the most commonly occurring limitations in basic actions, and c) capture persons with similar difficulties across countries.

The data collection for WG-SS is designed for adults to self-report and these WG-SS questions are best implemented for those who are aged 18 or above. There are a number of household surveys and censuses which adopted the WG-SS question.

2.3. Motivations for development of the WG/UNICEF module on child functioning\(^2\)

Various national and international studies highlighted the differences in the distribution of types of disability between children and adults.\(^3\) The WG recognized that WG-SS missed many functional domains associated specifically with children's experience, and the WG-SS questions should not be recommended to children under the age of 18. For example, while studies showed that adults face the most difficulty in mobility, sensory, and personal care - especially with advancing years, the most prevalent functional difficulties and disabilities for children are related to intellectual functioning, affect and behavior.\(^4\)

As a result of this, UNICEF and the WG developed the Child Functioning Module (CFM) which is designed to better identify all children with disability in the age group 2 to 17. There are two versions of CFM: one for children age 2-4 years old and one for children age 5-17 years old. Both are designed for administration to mothers (or primary caregivers). These tools aim to identify the subpopulation of children who are at greater risk than other children of the same age of experiencing limited participation in an unaccommodating environment. The set of questions is intended for use in national household

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surveys. While it has been incorporated into the most recent round of UNICEF-sponsored Multiple Indicator Cluster Surveys (MICS), it is expected that more household surveys and censuses will adopt CFM as they have done it with WG-SS in coming years. The 6th round of Multiple Indicator Cluster Survey (MICS6) during 2018-2020 collects data on both adult and child functional difficulty for about 70 countries.

2.4. How child functioning questions are developed

The development WG/UNICEF child functioning module is along key principles including:\(^5\)

1. **Identification of children with functional difficulties**: The primary purpose of the questions is to identify children with functional difficulties. These functional difficulties may place children at risk of experiencing limited participation in an unaccommodating environment.

2. **Providing cross-national data**: The module is designed to identify children with similar types of functional difficulties in basic activity across countries.

3. **Selection on child functioning domains**: The International Classification of Functioning, Disability and Health for Children and Youth (ICF-CY), is the conceptual framework that guided the selection of relevant functional domains within which a set of current, relevant, and sustainable questions on child functioning was developed.

4. **Building on WG-SS**: The development of the child functioning questions built upon the WG’s work on the short and extended sets of questions for adults. Findings from several studies and national and international surveys were also considered.

5. **Consulting experts**: Consultation with other experts, including survey statisticians, pediatricians, developmental psychologists, speech therapists, etc. was sought to support the work.

6. **Establishing reference age as 2 to 17-year olds**: The population reference age for the child functioning questions is 0-17 years, as per ICF-CY recommendations. However, capturing disabilities among children under 2 years of age through population surveys is challenging. Due to the transitional nature of the development process for young children, a developmental delay at this age is not necessarily indicative of functional limitations. Therefore, trying to assess difficulties in functioning could yield misleading results for this age group.

7. **Validating the questions**: The set of questions were validated through cognitive and field testing, following established WG procedure.

8. **Use of CFM**: The set of child functioning questions can be used as a component of national population surveys or as a supplement to surveys on specific topics: health, education, etc.

2.5. Functional Domains in the WG-SS and WG/UNICEF Child functioning module

The functional domains covered in each of the tool are different as they attempt to capture those difficulties that impact participation which is a function of age. The table below provides information on the domain covered.

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Table 1. Functional difficulty domains covered in each tool

<table>
<thead>
<tr>
<th></th>
<th>WG/UNICEF child functioning module (Functional difficulty age 2-4)</th>
<th>WG/UNICEF child functioning module (Functional difficulty age 5-17)</th>
<th>WG-SS (Adult functional difficulty ages 18 and above)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seeing</td>
<td>Seeing</td>
<td>Seeing</td>
<td>Seeing</td>
</tr>
<tr>
<td>Hearing</td>
<td>Hearing</td>
<td>Hearing</td>
<td>Hearing</td>
</tr>
<tr>
<td>Walking</td>
<td>Walking</td>
<td>Walking</td>
<td>Walking</td>
</tr>
<tr>
<td>Fine Motor</td>
<td>Fine Motor</td>
<td>Fine Motor</td>
<td>Fine Motor</td>
</tr>
<tr>
<td>Communication</td>
<td>Communication</td>
<td>Communication</td>
<td>Learning</td>
</tr>
<tr>
<td>Learning</td>
<td>Learning</td>
<td>Learning</td>
<td>Communication</td>
</tr>
<tr>
<td>Playing</td>
<td>Remembering</td>
<td>Playing</td>
<td>Accepting change</td>
</tr>
<tr>
<td>Controlling behavior</td>
<td>Controlling behavior</td>
<td>Controlling behavior</td>
<td>Concentrating</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Making friends</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Anxiety</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Depression</td>
</tr>
</tbody>
</table>

3. Education indicators and functional difficulty

Given that the data on functional difficulty is collected based on age groups, disaggregation of some indicators require caution. The table below provides education indicators that can be disaggregated based on the tool used for different age groups.

Table 2 Education indicators, including SDG indicators that can be disaggregated using information on functional difficulty status collected in household surveys

<table>
<thead>
<tr>
<th>Education indicators for children aged 2 to 4</th>
<th>Education indicators for children aged 5 to 17</th>
<th>Education indicators for adults aged 18 and above</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDG 4.2.1: Percentage of children who are developmentally on track under 5 years of age</td>
<td>SDG 4.1.1a: Proportion of children and young people in Grade 2 or 3 achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by sex</td>
<td>4.3.1 Participation rate of youth and adults in formal and non-formal education and training in the previous 12 months, by sex*</td>
</tr>
<tr>
<td>SDG 4.2.3: Percentage of children under 5 years experiencing positive and stimulating home learning environments</td>
<td>SDG 4.1.2: Completion rate (primary, lower secondary and upper secondary) *</td>
<td>SDG 4.3.2: Gross enrolment ratio for tertiary education</td>
</tr>
<tr>
<td>Early childhood attendance for children 24 months to 59 months</td>
<td>SDG 4.1.3: Gross-intake ratio to the last grade (primary and lower secondary)</td>
<td>SDG 4.3.3: Participation rate in technical-vocational programmes*</td>
</tr>
<tr>
<td>SDG 4.1.4: Out-of-school children rate (primary, lower secondary and upper secondary) *</td>
<td>SDG 4.4.1: Proportion of youth and adults with ICT skills*</td>
<td></td>
</tr>
<tr>
<td>SDG 4.1.5: Percentage of children over-age for grade (primary and lower secondary) *</td>
<td>SDG 4.4.2: Percentage of youth/adults who have achieved at least a minimum level of proficiency in digital literacy skills*</td>
<td></td>
</tr>
<tr>
<td>Education indicators for children aged 2 to 4</td>
<td>Education indicators for children aged 5 to 17</td>
<td>Education indicators for adults aged 18 and above</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-------------------------------------------------</td>
</tr>
<tr>
<td>SDG 4.2.2: Participation in organized learning (one year before the official primary entry age)*</td>
<td>SDG 4.4.3: Youth/adult education attainment rates*</td>
<td></td>
</tr>
<tr>
<td>SDG 4.5.2: Percentage of students in primary education who have their first or home language as language of instruction</td>
<td>SDG 4.6.1: Proportion of population in a given age group achieving at least a fixed level of proficiency in functional (a) literacy and (b) numeracy skills*</td>
<td></td>
</tr>
<tr>
<td>SDG 4.7.4: Percentage of students by age group (or education level) showing adequate understanding of issues relating to global citizenship and sustainability*</td>
<td>SDG 4.6.2: Adult/youth literacy Rate*</td>
<td></td>
</tr>
<tr>
<td>SDG 4.7.5: Percentage of students in the final grade of lower secondary showing proficiency in knowledge of environmental science and geoscience*</td>
<td>SDG 4.6.3: Participation rate of illiterate youth/adults in literacy programme*</td>
<td></td>
</tr>
<tr>
<td>SDG 4.a.2: Percentage of students experiencing bullying in the last 12 months*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SDG 4.a.3: Number of attacks on students*</td>
<td>Effective transition rate*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Adjusted net attendance rate (primary, lower secondary, upper secondary) *</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Repetition rate by grade*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dropout rate by grade *</td>
<td></td>
</tr>
<tr>
<td></td>
<td>School Readiness</td>
<td></td>
</tr>
</tbody>
</table>

*Education indicators where the reference age group overlaps between child functioning module 5 to 17-year-olds and adult functional difficulty or with child functioning module 5 to 17-year-olds and child functioning module for 2 to 4-year-olds, and therefore the functional domains change.

3.1. Age-related issues in disaggregating indicators using functional difficulty module

If countries choose to include the WG/UNICEF child functioning module and the WG-SS module to their surveys and given that the data on functional difficulty is collected based on age groups, disaggregation of some indicators require caution. While some SDG indicators, such as SDG 4.2.1 and SDG 4.1.1.a, the age range of the indicator and that covered by functional difficulty aligns, other indicators cover different disability age groups. For example, SDG 4.4.1 covers youth aged 15 to 24, which includes both child functioning age group and adult functioning age group. Disaggregating the indicator would require clearly identifying which set of functional domains apply to which age group and ensuring to make a note of it in the analysis.
3.2. Proposed approaches

3.2.1 Out-of-school children rate (SDG 4.1.4) and Adjusted Net Attendance Rate

Out-of-school children (OOSC) are children and young people in the official age range for a given level of education who are not attending either pre-primary, primary, secondary or higher levels of education.

Adjusted Net Attendance Rate (ANAR) measures the percentage of children of a given age that are attending an education level compatible with their age or attending a higher education level. The rate is termed “adjusted” since it includes both groups.

Given that in most countries, primary, lower secondary and upper secondary ages are 6 to 17, information from CFM can be used to disaggregate OOSC and ANAR by child's functional difficulty status for primary and lower secondary for most countries. However, for the level of education that includes individuals aged 18 or above, the functional domains from WG-SS will be used, resulting in a change in the identification of functional difficulty for those aged 18 or above. This impacts comparability and should be noted.

Recommendation: As the default approach is to use WG/UNICEF child functioning module for ages 5 to 17 and provide a note clearly explaining which set (CFM or WG-SS) of functional domains were used for them, if children below 5 years or above 17-year-old are included with children between 5-17 years old. Report if WG-SS are used.

3.2.2 Completion rate (SDG 4.1.2)

The completion rate reflects the percentage of a cohort of children or young people three to five years older than the intended age for the last grade of each level of education (primary, lower secondary, or upper secondary) who have completed that level of education.

Caution will need to be exercised in disaggregation of completion rate. This is because the completion age bracket is 3 to 5 years older than the intended age for last grade, resulting in different age groups used to identify functional difficulties. As the functional domains differ by the tools i.e. for individuals aged 5 to 17; and those aged 18 and above, it will be important to explain clearly which module is used for functional difficulty disaggregation. For example, if primary completion age is calculated among children aged 14 to 16, then the functional domains from WG/UNICEF child functioning module 5 to 17-year-olds will be used. If the lower secondary completion age is 17 to 19, then WG/UNICEF child functioning module for 5 to 17 year olds will be used for 17 years old and WG-SS will be used for those who are aged 18 and 19. Finally, samples used to calculate completion rates for upper secondary are normally aged 18 or above, in which case the WG-SS questions will be used. This difference in functional domains would mean ‘functional difficulty status’ will not be comparable between the different levels of education for completion rate.
3.2.3 Participation rate in organized learning (SDG 4.2.2)

Participation in organized learning measures the share of children one year younger than the official age to start primary school who are attending ECE or primary education. If primary age begins at 6, information from WG/UNICEF child functioning module for ages 5 to 17 is sufficient for this indicator as it covers children aged 5. If primary begins at age 5, then the functional domains for 4-year olds, as recommended by WG/UNICEF child functioning module for ages 2 to 4 will apply.

Recommendation: As the default approach is to use WG/UNICEF child functioning module for ages 5 to 17, provide a note if WG/UNICEF child functioning module for ages 2 to 4 is used to identify children with disabilities. The note will be needed if the school-age for grade 1 in primary education is 5 years or lower. Report if WG-SS are used for all children.

3.2.4 Repetition rate and dropout rate by grade

If individuals are 18-year-old or older, it is a consistent approach to use functional domains based on WG-SS. With household survey data, you can use both WG-SS functional domains and CFM domains to calculate repetition and dropout rates. For example, if some 18-year olds are in grade 10 due to repetition, and the peers are 16 year old, then for the 18 year olds, information on functional difficulty will come from WG-SS whereas for 16 year olds, it will be from the WG/UNICEF child functioning module.

Recommendation 1: As the default approach is to use CFM (5-17), provide a note if WG-SS are used to identify children with disabilities. Report if WG-SS are used for all children.

Recommendation 2: Compare indicators across grades only if the same set of functional domains have been used.

3.2.5 All youth related indicators covering ages 15 to 24 including SDG 4.3.1, SDG 4.3.3, SDG 4.4.1, SDG 4.4.2, SDG 4.4.3, SDG 4.6.2

When disaggregating youth related indicators for individuals aged 15 to 24 by functional difficulty, two different sets of functional difficulties will be used. Information on functional difficulty can be gathered from WG/UNICEF child functional module for 15 to 17-year olds and WG-SS for 18 to 24-year olds. This would mean different functional domains will be used to identify functional difficulty by age bracket.
Recommendation: Provide a note to clarify which functional domains are used for functional difficulty disaggregation.

4. Summary Recommendation

For surveys that include both WG-SS and WG/UNICEF module on child functioning, it will be critical to clarify the set of functioning difficulties being applied when ages overlap. It is recommended that in all such indicators, a note is included clearly stating the age groups and the respective set of functional difficulties. Moreover, comparisons based on functional difficulty should be made only when the same set of functional difficulty domains apply.
Annex 1

**Preamble to the CFM for Ages 2-4 years**

Interviewer read: “I would like to ask you some questions about difficulties your child may have.”

**VISION**

CF1. Does (name) wear glasses?
   1. Yes
   2. No (Skip to CF3)

CF2. When wearing his/her glasses, does (name) have difficulty seeing? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know (Skip to CF4)

CF3. Does (name) have difficulty seeing? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know

**HEARING**

CF4. Does (name) use a hearing aid?
   1. Yes
   2. No (Skip to CF6)

CF5. When using his/her hearing aid, does (name) have difficulty hearing sounds like peoples’ voices or music? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know (Skip to CF7)

CF6. Does (name) have difficulty hearing sounds like peoples' voices or music? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
7. Refused
9. Don't know

**MOBILITY**

CF7. Does (name) use any equipment or receive assistance for walking?
   1. Yes
   2. No (Skip to CF10)

CF8. Without his/her equipment or assistance, does (name) have difficulty walking? Would you say... [Read response categories]
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know

CF9. With his/her equipment or assistance, does (name) have difficulty walking? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know (Skip to CF11)

CF10. Compared with children of the same age, does (name) have difficulty walking? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know

**DEXTERITY**

CF11. Compared with children of the same age, does (name) have difficulty picking up small objects with his/her hand? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know

**COMMUNICATION**

CF12. Does (name) have difficulty understanding you? Would you say... [Read response categories]
   1. No difficulty
CF13. When (name) speaks, do you have difficulty understanding him/her? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know

LEARNING

CF14. Compared with children of the same age, does (name) have difficulty learning things? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know

PLAYING

CF15. Compared with children of the same age, does (name) have difficulty playing? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know

CONTROLLING BEHAVIOR

CF16. Compared with children of the same age, how much does (name) kick, bite or hit other children or adults? Would you say... [Read response categories]
   1. Not at all
   2. The same or less
   3. More
   4. A lot more
   7. Refused
   9. Don't know
Interviewer read: “I would like to ask you some questions about difficulties your child may have.”

VISION

CF1. Does (name) wear glasses?
   1. Yes
   2. No (Skip to CF3)

CF2. When wearing his/her glasses, does (name) have difficulty seeing? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know (Skip to CF4)

CF3. Does (name) have difficulty seeing? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know

HEARING

CF4. Does (name) use a hearing aid?
   1. Yes
   2. No (Skip to CF6)

CF5. When using his/her hearing aid, does (name) have difficulty hearing sounds like peoples' voices or music? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know (Skip to CF7)

CF6. Does (name) have difficulty hearing sounds like peoples' voices or music? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
7. Refused
9. Don't know

MOBILITY

CF7. Does (name) use any equipment or receive assistance for walking?
   1. Yes
   2. No (Skip to CF12)

CF8. Without his/her equipment or assistance, does (name) have difficulty walking 100 yards/meters on level ground? That would be about the length of 1 football field. [Or insert country specific example]. Would you say... [Read response categories]
   2. Some difficulty
   3. A lot of difficulty (Skip to CF10)
   4. Cannot do at all (Skip to CF10)
   7. Refused
   9. Don't know

CF9. Without his/her equipment or assistance, does (name) have difficulty walking 500 yards/meters on level ground? That would be about the length of 5 football fields. [Or insert country specific example]. Would you say... [Read response categories]
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know

CF10. With his/her equipment or assistance, does (name) have difficulty walking 100 yards/meters on level ground? That would be about the length of 1 football field. [Or insert country specific example]. Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty (Skip to CF14)
   4. Cannot do at all (Skip to CF14)
   7. Refused
   9. Don't know

CF11. With his/her equipment or assistance, does (name) have difficulty walking 500 yards/meters on level ground? That would be about the length of 5 football fields. [Or insert country specific example]. Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know (Skip to CF14)
CF12. Compared with children of the same age, does (name) have difficulty walking 100 yards/meters on level ground? That would be about the length of 1 football field. [Or insert country specific example]. Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty (Skip to CF14)
   4. Cannot do at all (Skip to CF14)
   7. Refused
   9. Don't know

CF13. Compared with children of the same age, does (name) have difficulty walking 500 yards/meters on level ground? That would be about the length of 5 football fields. [Or insert country specific example]. Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know

SELF-CARE

CF14. Does (name) have difficulty with self-care such as feeding or dressing him/herself? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know

COMMUNICATION CF15. When (name) speaks, does he/she have difficulty being understood by people inside of this household? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don't know

CF16. When (name) speaks, does he/she have difficulty being understood by people outside of this household? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
LEARNING
CF17. Compared with children of the same age, does (name) have difficulty learning things? Would you say... [Read response categories]
1. No difficulty
2. Some difficulty
3. A lot of difficulty
4. Cannot do at all
7. Refused
9. Don't know

REMEMBERING
CF18. Compared with children of the same age, does (name) have difficulty remembering things? Would you say... [Read response categories]
1. No difficulty
2. Some difficulty
3. A lot of difficulty
4. Cannot do at all
7. Refused
9. Don't know

CONCENTRATING
CF19. Does (name) have difficulty concentrating on an activity that he/she enjoys doing? Would you say... [Read response categories]
1. No difficulty
2. Some difficulty
3. A lot of difficulty
4. Cannot do at all
7. Refused
9. Don't know

ACCEPTING CHANGE
CF20. Does (name) have difficulty accepting changes in his/her routine? Would you say... [Read response categories]
1. No difficulty
2. Some difficulty
3. A lot of difficulty
4. Cannot do at all
7. Refused
9. Don't know

CONTROLLING BEHAVIOR
CF21. Compared with children of the same age, does (name) have difficulty controlling his/her behaviour? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don’t know

MAKING FRIENDS
CF22. Does (name) have difficulty making friends? Would you say... [Read response categories]
   1. No difficulty
   2. Some difficulty
   3. A lot of difficulty
   4. Cannot do at all
   7. Refused
   9. Don’t know

ANXIETY
CF23. How often does (name) seem very anxious, nervous or worried? Would you say... [Read response categories]
   1. Daily
   2. Weekly
   3. Monthly
   4. A few times a year
   5. Never
   7. Refused
   9. Don’t know

DEPRESSION
CF24. How often does (name) seem very sad or depressed? Would you say... [Read response categories]
   1. Daily
   2. Weekly
   3. Monthly
   4. A few times a year
   5. Never
   7. Refused
   9. Don’t know

Calculating functional difficulty using WG/UNICEF Child Functioning Module
Children are considered to have functional difficulties if they have difficulty in at least one functional domain. For each question on functional domains, values of 3 and 4 mean, respectively, “having a lot of
difficulty” in the functional domain or “not being able to perform the function all,” for example not seeing at all, or not hearing at all.

*Children age 2 to 4*

For children under 5 years old, a child is considered to have a functional difficulty if any of the following conditions are met:

- Seeing (UCF7 = 3 or 4)
- Hearing (UCF9 = 3 or 4)
- Walking (UCF11 = 3 or 4, OR UCF12 = 3 or 4, OR UCF13 = 3 or 4) – includes multiple questions on walking with or without equipment
- Fine motor (UCF14 = 3 or 4)
- Communication – must satisfy one of the two conditions below:
  - Understanding (UCF15 = 3 or 4)
  - Being understood (UCF16 = 3 or 4)
- Learning (UCF17 = 3 or 4)
- Playing (UCF18 = 3 or 4)
- Controlling behaviour (UCF19 = 5). UCF19 asks mothers and primary caretakers how likely children are to kick, hit or bite other children. Children are considered to have functional difficulties in controlling behaviour if they are very likely to kick, hit or bite other children.

A child aged 2-4 years is considered to have functional difficulties if any of the above variables is present. The following formula is used:

\[ CD = 1 \text{ if } S=1 \text{ or } H=1 \text{ or } W=1 \text{ or } FM=1 \text{ or } CM=1 \text{ or } L=1 \text{ or } P=1 \text{ or } CB=1. \]

Where:

CD represents children with functioning disability:

- S=1 means child has functional difficulties associated with seeing
- H=1 means child has functional difficulties associated with hearing
- W=1 means child has functional difficulties associated with walking
- FM=1 means child has functional difficulties associated with fine motor
- CM=1 means child has functional difficulties associated with communicating
- L=1 means child has functional difficulties associated with learning
- P=1 means child has functional difficulties associated with playing
- CB=1 means child has functional difficulties associated with controlling behaviour

Finally,

\[ SCFD_n = \frac{CD_n}{CD_n + CNDO_n} \]
Where:

\[ S_{SCC} = \text{share of children who have functional difficulties of the } n \text{ domain} \]

\[ CD_n = \text{children who have functional difficulties of the } n \text{ domain according to the formula above} \]

\[ CND_n = \text{children who do not have functional difficulties of the } n \text{ domain according to the formula above} \]

**Children Age 5 to 17**

For children aged 5–17 years, functional difficulty in the individual domains is calculated as follows:

- Seeing (FCF6 = 3 or 4)
- Hearing (FCF8 = 3 or 4)
- Walking (FCF10 = 3 or 4, OR FCF11 = 3 or 4, OR FCF14 = 3 or 4, OR FCF15 = 3 or 4) – includes multiple questions on walking with or without equipment
- Self-care (FCF16 = 3 or 4)
- Communication – must satisfy both conditions below
  - Being understood inside household (FCF17 = 3 or 4)
  - Being understood outside household (FCF18 = 3 or 4)
- Learning (FCF19 = 3 or 4)
- Remembering (FCF20 = 3 or 4)
- Concentrating (FCF21 = 3 or 4)
- Accepting change (FCF22 = 3 or 4)
- Controlling behaviour (FCF23 = 3 or 4)
- Making friends (FCF24 = 3 or 4)
- Affect – this domain is measured in two ways: Anxiety and Depression.
  - Anxiety (FCF25 = 1) – FCF25 measures the frequency of anxiety. Children are considered anxious if they are anxious daily (FCF25 = 1)
  - Depression (FCF26 = 1) – FCF26 measures the frequency of depression. Children are considered depressed if they are depressed daily (FCF26 = 1)

A child aged 5–17 years is considered to have functional difficulties if any of the above variables is present. The following formula is used:

\[ CD = 1 \text{ if } S=1 \text{ or } H=1 \text{ or } W=1 \text{ or } SC=1 \text{ or } CM=1 \text{ or } L=1 \text{ or } R=1 \text{ or } C=1 \text{ or } AC=1 \text{ or } CT=1 \text{ or } F=1 \text{ or } X=1 \text{ or } D=1. \]

Where:

CD represents children with functioning disability:

- S=1 means child has functional difficulties associated with seeing
- H=1 means child has functional difficulties associated with hearing
- W=1 means child has functional difficulties associated with walking
• SC=1 means child has functional difficulties associated with self-care
• CM=1 means child has functional difficulties associated with communicating
• L=1 means child has functional difficulties associated with learning
• R=1 means child has functional difficulties associated with remembering
• C=1 means child has functional difficulties associated with concentrating
• AC=1 means child has functional difficulties associated with accepting change
• CT=1 means child has functional difficulties associated with controlling their behaviour
• F=1 means child has functional difficulties associated with making friends
• X=1 means child has functional difficulties associated with anxiety
• D=1 means child has functional difficulties associated with depression

Finally,

\[ SCFD_n = \frac{CD_n}{CD_n + CND_n} \]

Where:

\( SCFD_n \) = share of children who have functional difficulties of the \( n \) domain
\( CD_n \) = children who have functional difficulties of the \( n \) domain according to the formula above
\( CND_n \) = children who do not have functional difficulties of the \( n \) domain according to the formula above