Children with disabilities are at a disadvantage for schooling and learning. Ensuring that these children have better educational opportunities is a challenge, but also an opportunity as inclusive education brings benefits to all children, not only those with disabilities. The analysis in this brief is based on census data. These data have limitations, including the fact that they are somewhat dated, but they are still useful because larger samples allow for a more detailed analysis by type of disability than is feasible with other data (household surveys are also used for analysis in this series; on data sources on disability in Uganda, see Brief 2023-30).

Using a 10 percent sample of the 2014 census, Figure 1 provides district-level estimates of the prevalence of mobility difficulties (difficulties for walking or climbing steps) among children ages 7 to 13, showing that it is much higher in some parts of the country than others. Nationally, the data suggest that 0.8 percent of children of primary school age suffer from mobility difficulties (with 6.4 percent of children of that age suffering from any type of disability, which is high). Note that children having some mobility difficulties are included (results only for children with a lot of difficulties or who cannot
walk or climb steps at all are available from the authors). The question considered in this brief is to what extent mobility difficulties may affect educational outcomes. The focus is on primary school completion, perceived literacy, and the risk of never enrolling in school. Basic statistics are provided on disability gaps in educational outcomes by age. As older individuals may have suffered from a disability after the normal years of schooling, trends may not precisely reflect disability gaps that existed in childhood. Still, they help in suggesting changes over time. Regression analysis is conducted next to assess the potential impact of exclusion related to mobility difficulties on outcomes. The analysis broadly follows the approach used in Malé and Wodon (2017) and Wodon et al. (2018). Briefs are also available for other types of disability.

Figure 1: Prevalence of Mobility Difficulties, Children Ages 7-13

![Map showing prevalence of mobility difficulties in children ages 7-13](image)

Source: Authors based on data from the Uganda 2014 census.

**Disability gaps in primary school completion have decreased but persist**

Figure 2 provides primary completion rates for individuals aged 15 to 35. Completion rates for younger children are not shown because they tend to be too low versus the likelihood of completing primary education at some point. This is because some children enter primary school late or repeat grades. Since the last census was implemented in 2014, estimates do not account for recent gains in educational attainment, but they are suggestive of changes over time in disability gaps. Four groups are considered: boys/men with no disability, girls/women with no disability, boys/men with mobility difficulties, and girls/women with mobility difficulties. Statistics are three-year moving averages to reduce jumps in the data when few observations are available for children with mobility difficulties. Completion rates at the primary level have increased over time since they are much higher for younger than older individuals. Over the period in review, gender gaps in completion rates were essentially closed (such gaps however remain at higher levels of education). As to disability gaps in completion rates, they were reduced but gaps nevertheless persist.

**Figure 2: Primary School Completion by Age (%)**

![Graph showing primary school completion rates by age](image)

Source: Authors based on data from the Uganda 2014 census.

**Similarly, disability gaps in literacy rate have decreased but persist**

Figure 3 provides a similar analysis for perceived literacy. Perceptions of literacy are likely to lead to higher literacy rates than an actual reading and comprehension test, but the data are still useful to suggest changes over time in disability gaps for literacy. Findings are similar to those observed for primary school completion, namely there have been gains over time, gender gaps have been closed, but disability gaps persist even if they have been reduced.

**Figure 3: Perceived Literacy by Age (%)**

![Graph showing perceived literacy rates by age](image)

Source: Authors based on data from the Uganda 2014 census.

**There have also been gains in the share of children ever enrolling in school**

Disability gaps in primary school completion rates and perceived literacy may come from the fact that some children never enroll in school. Figure 4 provides estimates of the share of individuals who ever enrolled in school by age. The story is similar: there have been gains over...
time and gender gaps have been closed, while disability gaps have been reduced but not closed. Recall also that individuals considered as having mild mobility difficulties are included in the groups with a disability. If the analysis had been restricted to individuals with a lot of difficulties or who cannot walk or climb steps at all, larger disability gaps in ever enrolling in schools would remain.

**Figure 4: Ever Enrolling in School by Age (%)**

![Graph showing ever enrolling in school by age](image)

Source: Authors based on data from the Uganda 2014 census.

**Regression analysis confirms the persistence of disability gaps**

Table 1 summarizes key statistics for the youngest appropriate age groups. Recall that estimates are for the 2014 census, and therefore do not factor in recent gains in educational outcomes. The Table shows, for example, that the perceived literacy rate is 7.6 percentage points higher for boys without a disability than those with mobility difficulties.

**Table 1: Disability Gaps for the Most Recent Age Group (%)**

<table>
<thead>
<tr>
<th></th>
<th>Boys</th>
<th>Girls</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No diff.</td>
<td>Difficulties</td>
</tr>
<tr>
<td>Perceived literacy</td>
<td>81.2</td>
<td>73.6</td>
</tr>
<tr>
<td>Primary completion</td>
<td>64.5</td>
<td>57.4</td>
</tr>
<tr>
<td>Ever enrolling</td>
<td>96.2</td>
<td>93.8</td>
</tr>
</tbody>
</table>

Source: Authors based on data from the Uganda 2014 census.

Are these gaps the result of exclusion associated with a disability, or do they result from other characteristics that could be correlated with such a disability? To assess the potential impact of exclusion related to disability on educational outcomes after controlling for other factors that may affect these outcomes, regression analysis is used. The term “impact” is used for simplicity (see Box 1). The analysis considers slightly larger age groups for sample size reasons. Regressions are estimated for (1) whether a child completed primary education (children ages 15 to 18 to allow time for completion); (2) whether a child is considered literate by parents (children ages 15 to 18); and (3) whether a child ever enrolled in school (children ages 6 to 11). While censuses have limits in terms of the variables that can be used as controls, many controls are still available (the list of controls is available from the authors).

**Box 1: What Is Meant by “Impacts” of Exclusion Related to Disabilities?**

The term “impact” is used for simplicity, but the analysis is based on correlations, and therefore need not imply causality. What is measured are statistical associations, and not necessarily impacts as could be observed with randomized control trials. Since a disability cannot be randomized, we rely on regression analysis to estimate likely impacts, but there is always a risk of bias. At the same time, the fact that we observe strong effects that are robust to various specifications does suggest, as expected, that exclusion related to disability persists.

Table 2 provides key results from the analysis for mobility difficulties and other disabilities for comparison purposes. When a coefficient is not statistically significant, this is indicated by NS in the Table. The interpretation of marginal impacts is in percentage points. For example, after controlling for other factors affecting outcomes, a child with mobility difficulties is 3.0 percentage point (coefficient of -0.030) less likely to complete primary education than a child with no disability. Typically, marginal impacts for mobility difficulties are smaller than the statistical gaps in Table 1, as expected. Still, these marginal impacts are almost always statistically significant, and some are large, especially for perceived literacy which may matter more for a range of outcomes later in life than primary school completion. To provide perspective, exclusion related to disability often leads to larger negative effects on educational outcomes than some of the other variables included as controls in the analysis. Surprisingly, for seeing difficulties, marginal effects are positive (see the discussion in the related brief).
Table 2: Marginal Impacts of Exclusion Related to Disabilities on Educational Outcomes

<table>
<thead>
<tr>
<th>Difficulties</th>
<th>Primary Completion</th>
<th>Perceived Literacy</th>
<th>Ever Enrolling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seeing</td>
<td>0.056</td>
<td>0.015</td>
<td>NS</td>
</tr>
<tr>
<td>Hearing</td>
<td>-0.056</td>
<td>-0.057</td>
<td>-0.007</td>
</tr>
<tr>
<td>Mobility</td>
<td>-0.030</td>
<td>-0.048</td>
<td>-0.031</td>
</tr>
<tr>
<td>Mental</td>
<td>-0.071</td>
<td>-0.106</td>
<td>-0.018</td>
</tr>
<tr>
<td>Multiple</td>
<td>-0.150</td>
<td>-0.193</td>
<td>-0.113</td>
</tr>
</tbody>
</table>

Source: Authors based on data from the Uganda 2014 census.
Note: All coefficients are statistically significant at the one percent level except the coefficient for seeing difficulties noted NS for Not Statistically Significant at the ten percent level.

Takeaways

Using data from the latest census, this brief considered gaps in educational outcomes for children with mobility difficulties in comparison to children without any disability. Nationally, 0.8 percent of children of primary school age appear to suffer from mobility difficulties, but that prevalence is much higher in some parts of the country than others. Disability gaps in primary completion rates, perceived literacy, and the likelihood of ever enrolling in school between children with mobility difficulties and children without any disability have decreased over time, but gaps remain. Regression analysis confirms that children with mobility difficulties are at a disadvantage after controlling for other factors affecting educational outcomes. While the data used for the analysis does not account for recent gains in educational outcomes, they suggest that exclusion related to disability persists.

References


Disclaimer & Acknowledgment

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