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 seeing difficulties 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 1.1 percent of children of primary school age suffer from seeing difficulties, with 6.4 percent of children of that age suffering from any type of disability, which is high. The prevalence of seeing difficulties is much higher in some parts of the country than others.

Over time, disability gaps in primary completion rates, perceived literacy, and the likelihood of ever enrolling in school between children with seeing difficulties and children without any disability have decreased, and surprisingly children with seeing difficulties seem to be doing slightly better than those without any disability.

Regression analysis confirms the fact that in the census data, seeing difficulties is not associated with statistically significant losses in the likelihood of primary school completion, perceived literacy, and ever enrolling in school. However, other datasets suggest that disability gaps persist. Furthermore, if the analysis with the census data had considered only children with a lot of difficulties or who cannot see at all, gaps would remain as well.

Considering other datasets apart from the census data used in this brief, it appears that exclusion related to disabilities remains an issue.
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 seeing 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 Seeing Difficulties, Children Ages 7-13

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

Disability gaps in primary school completion have been bridged (although other datasets suggest gaps main remain)

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 seeing difficulties, and girls/women with seeing difficulties. Statistics are three-year moving averages to reduce jumps in the data when few observations are available for children with seeing 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 closed as well, with the surprising result that children with seeing difficulties have slightly completion higher rates.

Figure 2: Primary School Completion by Age (%)

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

Similarly, disability gaps in literacy rate have been bridged (although other datasets suggest gaps main remain)

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, and 15-year old children with seeing difficulties do slightly better.

Figure 3: Perceived Literacy by Age (%)

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, with children with seeing difficulties doing slightly better. Recall that individuals considered as having mild seeing 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 see at all, larger disability gaps in ever enrolling in schools would remain.

Figure 4: Share of Children ever enrolled by Age (%)

Source: Authors based on data from the Uganda 2014 census.
Regression analysis confirms that disability gaps have been closed, albeit this may not hold with other data sets and may depend on the severity of the disability

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 (surprisingly) 1.8 percentage points lower for boys without a disability than those with seeing 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>83.0</td>
</tr>
<tr>
<td>Primary completion</td>
<td>64.5</td>
<td>69.6</td>
</tr>
<tr>
<td>Ever enrolling</td>
<td>96.2</td>
<td>97.7</td>
</tr>
</tbody>
</table>

Table 2 provides key results from the analysis for seeing 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. The surprising results for seeing difficulties hold. For example, after controlling for other factors affecting outcomes, a child with seeing difficulties is apparently 5.6 percentage point (coefficient of 0.056) more likely to complete primary school than a child with no disability. For literacy the effect is lower and for ever enrolling in school the effect is not statistically significant.

Box 2: Seeing Difficulties, Educational Outcomes and School Eye Health Programs

Findings based on the census on educational outcomes for children with seeing difficulties suggest that those children are doing relatively well in comparison to other children. Similar findings are observed using data from the 2019/20 Uganda National Household Survey. This does not mean that children with seeing difficulties do not require interventions. As discussed in separate briefs in this series, school eye health programs have proven effective globally and in Ethiopia. These programs are affordable and can have large benefits as providing a pair of eyeglasses and (when needed) referral for additional care to a health facility for children (and teachers) who need them can prevent drop-out and improving learning performance.
Takeaways

Using data from the latest census, this brief considered gaps in educational outcomes for children with seeing difficulties in comparison to children without any disability. Nationally, 1.1 percent of children of primary school age appear to suffer from seeing 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 seeing difficulties and children without any disability have decreased over time, with the surprising result that children with seeing difficulties seem to be doing slightly better. However, triangulation with other data suggests that disability gaps may persist.

References


Disclaimer & Acknowledgment

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