

Survey identifies troubling effect of pandemic on where women give birth in Ethiopia

December 18 2020, by Ellie Qian



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A new study from the Bloomberg School of Public Health and researchers at Addis Ababa University in Ethiopia has found that as of

June, the proportion of women in urban areas—where COVID-19 rates were highest—who delivered in lower-level health facilities significantly increased while deliveries in hospitals declined. A pregnant woman's place of delivery is a key maternal health service component that has a direct impact on pregnancy and newborn outcomes, and researchers have been monitoring how the COVID-19 pandemic is affecting women's delivery patterns.

The analysis was conducted using data from the Performance Monitoring for Action Ethiopia survey, led by Linnea Zimmerman, assistant professor in the Department of Population, Family, and Reproductive Health at the Bloomberg School, and Solomon Shiferaw and Assefa Seme at Addis Ababa University. The project is managed by Johns Hopkins global health affiliate Jhpiego and the Gates Institute. Results from the analysis also showed that at the national level, there was no difference in the proportion of [women](#) who delivered in a hospital and home delivery rates remained unchanged.

Looking within urban areas, women who delivered during May and June, after COVID-19 restrictions started, were significantly less likely to deliver in a hospital relative to women who delivered prior to the pandemic.

"Though it is reassuring that home delivery rates did not increase, shifts to lower-level facilities are potentially problematic given their lower levels of readiness," Zimmerman said. Findings from the PMA surveys show that health posts and [health centers](#) generally have much lower capacity to handle birth complications, both in terms of essential medications and procedures, such as Cesarean sections.

Regardless of the [time period](#), wealthier women, more educated women, women who had never given birth before, and women 30 and older in urban areas were more likely to deliver in a hospital than were women

who were poorer, less educated, younger, or had previously given birth. The pattern of delivery location among rural women was no different before or after the pandemic. Similar to the patterns observed in urban areas, higher age, education, wealth, and having never given birth were associated with a higher likelihood of delivering in a health facility (including hospitals, health centers, and health posts) compared to home delivery.

Among women who indicated that the pandemic affected where they delivered, about three in four said they were afraid of getting or spreading COVID-19, two in five were scared of being alone in a health facility while delivering, and more than one-third said there was no transportation available.

These differences align with the unfolding of the pandemic in Ethiopia. Early in the [pandemic](#), COVID-19 diagnoses were more frequent in urban areas than in rural areas, particularly in Addis Ababa, the nation's capital. Information on the spread and prevention of COVID-19 was also more easily accessible in urban areas compared to rural. These two factors, combined with stricter guidelines/compliance of travel restrictions, could have contributed to the lower rates of [hospital](#) delivery in [urban areas](#). With an increasing burden of COVID-19 cases, hospitals were likely to prioritize treatment and infection control of COVID-19, leaving health posts and health centers as the primary providers of [delivery](#) services and other basic reproductive, maternal, newborn, and child [health](#) services.

Provided by Johns Hopkins University

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