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What does the evidence say about mode effects on data quality?

Comparing Phone Surveying to Face-to-Face Interviewing

We reviewed evidence on whether asking the same questions via different survey modes - over the we revealed evidence on whether as long the same questions via dimeter's survey modes – over the phone versus face to take – produces different answers in low and middle income countries (LMICs). While there is limited evidence from LMIC sattings on these differences, known as mode effects, those studies are summarized here, which turned up examples of meaningful mode effects. In particular, there is evidence suggesting this respondents may be more likely to give socially desirable responses over the phone than in person.

Motivation

A key concern across all modes of data collection is that survey data accurately reflects the world. This is especially relevant for remote data collection modes, as the COVID-19 pandemic has forced many meaarchers to pixel from established modes of data collection, such as face do-face surveys, to remote surveys where there are open questions about the accuracy of data collection. For surveys to accurately measure the intended information, researchers need to understand if and how mode effects impact survey responses.

Existing Evidence

EXISTING EVICIENCE Evidence on validity of remote data collection in LMICs is limited but does exist for a variety of modes, sampling techniques and populatores. Gitson et al. (2012) almod to review and synthesize studies from LMICs to identify mode effects but were unwilling to draw general conclusions due to the limited number of studies. Instead, one can point to a flew individual studies which dd find meaningful differences inresponses to the phone survey mode (known as Computer Administered Telephone Interviews, or CAT(pompand to responses from face-to-face interviewing abbreviated here as IRP.¹ These examples suggest that survey mode may affect respondent's tradinicy to give exaggerated, socially desirable arrowers, but it was not always the same mode that produced this blink at the same here. Includies here not that them use new numbers in the related balance. bias. At the same time, it should be noted that there were survey quastions in these studies for which mode effects were not found, and one study where no evidence of mode effects was found.

Figure 1, on the next page, shows six survey responses from three studies with the F2F average Figure 1, on the next page, shows as survey responses from three studies with the F2F average compared to the CATI average for each. Differences in the heights of adjacent bars suggest mode effects, with all six being statistically significant. The first study, conducted initiarkina Faso, used a national sample of women of reproductive age surveyed F2F about contraceptive use (<u>creational ad-al_2000</u>). For the CATI survey, random digit d along was used to generate another representative sample of women. The CATI sample reported higher contraceptive use, 40% versus 28% in F2F, a statistically significant difference of 14 percentage points.

There is some evidence comparing other modes (Hill and SMS) but we have focused on CATI in this brief survey modes. These briefs are made poss western University's Global Poverty Resear

Evidence Brief: Mode Effects of CATI Surveys

This brief summarizes existing research on how different survey modes may affect the accuracy of responses to the same questions. The potential mechanisms for these differences, known as mode effects, are outlined in the brief along with suggestions for future research.

December 29, 2020