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

Comparing Phone Surveying to Face-to-Face Interviewing

we renewed evalence on whether abong the same questions and otherwise anny mooss – ower the phone versus face to face – produces different answers intow and middle income countries (MINGS). While there is limited evidence from LMIC settings 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 that 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 gandemic has forced many researchers to plust from established modes of data collection, such as face is—face surveys, to remote surveys where there are open questfors 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 EVIOLENCE

Evidence on validity of remote data collection in LMICs is limited but does exist for a variety of
modes, sampling techniques and populations. Gibson et al. (2012) aimed 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 few individual studies withold find
meaningful differences in responses to the phone survey mode (known as Computer-Administered
Telephone Interviews, or CAT (compared to responses from face-to-face interviewing abbreviated
here as 12E.1 "These examples suggest that survey mode may affect respondence" tendency to give
exagginated, socially desirable answers, but it was not always the same mode that produced this bias. At the same time, it should be noted that there were survey questions 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 rext page, shows as survey responses from three studies with the F2F average compared to the CATI average for each. Difference in the heights of adjacent bars suggest mode effects, with all six being statistically significant. The first study, conducted initiarisina Faso, used a national sample of women of reproductive age surveyed F2F about contraceptive use (<u>Conscrited at al., 2005</u>). For the CATI survey, random digit of a ling was used to generate another representative sample of women. The CATI sample reported higher contraceptive use, 40% versus 20% in F2F, a statistically significant difference of 14 percentage points.

There is some evidence comparing other modes (NR and SMS) but we have focused on CATI in this brief

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.

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