

Private but Misunderstood? Evidence on Measuring Intimate Partner Violence via Self-Interviewing in Rural Liberia and Malawi*

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Abstract

Women may under-report intimate partner violence (IPV) in surveys. We conduct an experiment in rural Liberia and Malawi in which women were asked IPV questions via self-interviewing (SI) or face-to-face interviewing (FTFI). Many women appear to misunderstand questions in SI, and we find significant effects of SI on innocuous placebo questions. Because the prevalence of IPV is typically well below 50%, such measurement error will tend to bias IPV reporting upwards. Indeed, we find that SI significantly increases reported incidence of IPV (by 13 percentage points in Malawi and 4 percentage points in Liberia), but we cannot rule out that these increases are spurious.

JEL classification: C93, O12, J16, I32

Keywords: intimate partner violence (IPV), measurement, ACASI, sensitive behaviors

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1 Introduction

Intimate Partner Violence (IPV) is a pressing global public health and policy problem, but measuring its true prevalence is challenging because factors such as social taboos, emotional pain, fear of retribution, or feelings of shame or embarrassment cause women to hesitate in reporting IPV to friends or family, as well as to physicians or to law enforcement officials (WHO 2012; Garcia-Moreno et al. 2013). Spurred by the lack of systematic data on IPV and recognizing its epidemiological nature, organizations such as the WHO began to run large-scale, multi-country surveys to measure the prevalence of IPV in the 1990s (WHO 1996).¹ The latest estimates from these surveys reveal that more than a quarter of ever-partnered women globally have experienced physical or sexual IPV during their lifetime (Sardinha et al. 2022).

Many public health professionals worry that the true rate of IPV may be higher, because women may understate their IPV experience even in surveys. It remains unclear if this is the case. On the one hand, some of the stigmas that drive under-reporting may be mitigated by the confidentiality afforded by a professionally conducted survey (as articulated in an informed consent form, for example), and by the fact that the surveyor is unlikely to be known by the survey respondent or her partner, or to have a reason to interact with the respondent again. The survey setting also differs critically from that in normal life because the survey *directly asks* about IPV, rather than leaving the onus of initiating the conversation to the woman herself.² On the other hand, some of the same stigmas may still apply; for example, the victim may feel ashamed about her situation, hesitate to confide in another individual, or be scared of being overheard (despite survey precautions to guard against this).

¹For example, the WHO multi-country study on women’s health and domestic violence was initiated in 1997 and the DHS Program started collecting information on IPV in 1990 (the first IPV module was fielded as part of the standard DHS in Colombia).

²In fact, the medical literature has identified one of the key measurement approaches for IPV to simply ask the person. The WHO also recommends direct questioning as the “gold standard” method of measuring IPV. See: https://apps.who.int/iris/bitstream/handle/10665/85239/9789241564625_eng.pdf.

To address some of these concerns, an alternative approach is the use of confidential self-interviewing (SI). In this approach, women self-administer IPV questions privately, which ensures that their answers are shielded even from the enumerator.³ In this paper, we evaluate one such interviewing technique which is known as Audio Computer Assisted Self-Interviewing (ACASI). In ACASI, respondents listen to pre-recorded questions via headphones and respond using a touchscreen device (in our setting, a tablet).⁴ The enumerator has no interaction with the respondent during this part of the survey, other than to explain the module at the beginning, and to be available in case the respondent seeks clarification.⁵

The intent of ACASI is that it will destigmatize IPV reporting, which is expected to lead to an increase in reporting. However, there are two other factors which may also affect IPV reporting in ACASI (especially when benchmarked against a professionally-administered survey with a trained enumerator). One, self-interviewing lacks any human element, and it is conceivable that respondents may be more inclined to report sensitive behaviors to a human interviewer since the respondent may perceive the enumerator to be empathetic or have built a rapport with her over the course of the survey.⁶ If this channel is present, ACASI will actually understate IPV.

A second factor, which is the focus of our paper, is that self-interviewing requires the respondent to understand the questions on her own, and to use the tablet, which may not be easy. This is an especially salient concern in the case of IPV, as the standard set of questions for measuring IPV has fairly complex and nuanced language, and therefore it may not be straightforward to grasp without the surveyor helping with interpretation. In almost

³The answers are not fully anonymized, however, since researchers have access to this data later on, but instructions during this part of the survey, and the consent form, clearly indicate that this data will be kept securely, so any risk of data breach is remote. Further, the researchers would have no reason to interact directly with the respondent outside of this research setting.

⁴Another reason to recommend ACASI is that it is virtually impossible for the interview to be overheard by anyone in close vicinity. However, this is not relevant in our experiment (or in any survey which uses best practice face-to-face interviewing), since the survey is always conducted privately.

⁵In our survey protocol, the respondent could pause the module to ask questions, and the enumerator could help her to resume from where she left off.

⁶Indeed, [Ellsberg et al. \(2001\)](#) compile anecdotes from debriefings of IPV survey enumerators in Nicaragua recounting how they were moved or distressed by the respondents' IPV experiences in face to face interviews, and some even reported that respondents sought their counsel during or at the end of the IPV module.

every setting, misunderstanding will tend to cause IPV to be *over*-reported. This is because IPV is measured through a module containing 20 questions which are later indexed into 4 main categories (controlling behavior, emotional violence, physical violence, and sexual violence). Typically, the mean of each of these individual yes/no questions is well under 0.5, so a woman who does not understand the module and randomly answers yes or no will tend to bias the level of reported IPV on any given question *upwards*. This bias will be amplified in the indexing (which is set equal to 1 if the respondent reported any form of IPV).

To shed light on these various channels, we conduct a measurement experiment within surveys collected as part of an evaluation of an unconditional cash transfer program in rural Liberia and Malawi (Aggarwal et al. 2023a, Aggarwal et al. 2023b). Women were individually randomized into whether the IPV module was asked either via face-to-face interviewing (FTFI) or over self-interviewing (SI). Baseline IPV rates differ dramatically across the two samples: the proportion of women experiencing any type of IPV over the past year (measured in FTFI) is 20% in Malawi but 38% in Liberia; as such, we opt to present all results separately by country.⁷

We have four main findings. First, similar to several prior papers (discussed in more detail below) we check for respondents’ understanding of the SI tool through 5 non-sensitive comprehension questions, for which the answer should universally be yes. These were administered to *all* respondents through SI, irrespective of the modality through which they were selected to subsequently complete the IPV module. The specific wording of these questions was developed over pre-testing and was meant to be understandable among the study populations. These questions were (1) Are you a woman?; (2) Do you live in [location where the survey is being conducted]?; (3) In the past week, did you sleep, during day or night?; (4) In the past year, did it rain in your village one time or more?; and (5) Have you heard about the Coronavirus? We find that a sizeable fraction of women incorrectly answer “no” to these

⁷The difference in rates between countries is also apparent in the most recent Demographic and Health Surveys (DHS) where 32% of women in our study region in Malawi and 57% in our study region of Liberia reported they had experienced any form of IPV in the past year (Table A1).

questions, with rates as high as 14-22% for the rain and sleep questions.⁸ However, responses to even the most basic questions on gender and location are not unanimously affirmative: 2-5% of the women incorrectly answer the gender question and about 10% answer the location incorrectly. Overall, only 62-70% answer all 5 questions correctly, and only 84-88% answer the 3 simplest questions correctly (gender, rain, and knowledge of the Coronavirus).⁹

Second, after the basic comprehension questions, we included a further set of innocuous “placebo” questions, randomized to be administered by either FTFI or SI. Because the survey method was randomized, we can estimate the placebo treatment effects of SI. The placebo includes 4 questions for which the answer could be yes or no: (1) Did you do any farm work in the past year?; (2) Did you go to the market in the past week?; (3) Will you, or anyone in your household, eat any [rice/maize] next week, one time or more?; and (4) Will you, or anyone in your household, eat any type of meat next week, one time or more? We find sizeable, statistically significant placebo effects for 3 of these 4 placebo questions in Malawi, and 2 of 4 in Liberia.

Third, we find that our screening questions were not effective in identifying women who understood the module: we find spurious placebo effects even among those who “passed” the screening questions (a result which is robust to various ways of defining “passing”). The fact that the screening questions fail to identify women who comprehend the module invalidates its use in our study. While this result is specific only to our study, and does not necessarily apply to other studies which use a screening approach, this finding does suggest that future studies might consider using placebo questions post-screening. In addition, it may be advisable for future researchers to explore more effective screening questions.

Fourth, we find that SI increases IPV reporting by a substantial amount, for all categories

⁸The research team found such responses even during pre-testing, and so repeatedly refined the surveys, including iterating on the exact language of these questions; however, such reporting remained. While we have no definitive answer to why women answer as they do, one anecdote is that women with young children or who are nursing interpret “sleep” as being about getting restful sleep. A similar explanation for the rain question is that respondents could have interpreted it as getting “enough” rain.

⁹In phone surveys that we ran with a random subset of these respondents in the immediate aftermath of the COVID-19 lockdowns (on topics unrelated to IPV), we found universal awareness about the virus and specifically, that it was called the Coronavirus (Aggarwal et al. 2022).

we measured (controlling behavior, and emotional, physical, and sexual IPV): on a given individual question, 7% of women in Malawi and 14% in Liberia report yes in FTFI, and SI increased this percentage by 5 percentage points in Malawi and 3 percentage points in Liberia. As an index, the effects were even larger, at least in Malawi, where the probability of emotional, physical or sexual IPV increased by 5-10% points, on a base of 7-16%. In Liberia, the effects were more modest: 1-8% points (significant only for sexual IPV) on a base of 7-34%. Naively interpreted, the increase in IPV we document would match the narrative that women are hesitant to report IPV, and that FTFI dramatically understates prevalence. However, we know from the comprehension questions that a significant portion of women do not seem to understand the ACASI module, and the effect sizes for our placebo results are similar to those for IPV. Our interpretation is that ACASI may not be appropriate for measuring IPV, at least for these populations, and researchers should be extremely cautious about using it. In this context, we cannot determine whether the increase we see is partially or entirely spurious.

Our paper is related to a large but as yet inconclusive literature about the effects of ACASI on measuring sensitive behaviors. In regards to sensitive behaviors generally, not just limited to IPV, studies suggest that self-administration increases reporting (see [Tourangeau and Yan 2007](#) for a review), though this is not universally the case.¹⁰ While an increase in reporting of taboo or sensitive behaviors is in itself sometimes interpreted as indicative of more truthful reporting (under a prior that such behaviors are underreported), this is not necessarily the case. Researchers typically do not have an objective measure of the underlying behavior, and thus ultimately, it is not clear whether this increase is indicative of increased truthful reporting or other factors, like miscomprehension. A small set of studies on self-reported sexual behaviors (measured via FTFI as well as ACASI) has attempted “ground-truthing” by using bio-markers of sexual activity or of STDs (see [Hewett et al. 2008](#); [Minnis et al. 2009](#); [Kelly et al. 2014](#)). While all 3 find that reported sexual activity is higher when elicited

¹⁰For example, [Newman et al. \(2002\)](#) find that ACASI increases reporting of stigmatized behaviors but decreases reporting of psychological distress among syringe exchange program participants.

via SI, biomarker-based validity was found to be mixed. Such ground-truthing is virtually impossible when measuring IPV experience, because (1) the standard way of measuring IPV is over the period of a year, and (2) objective biomarkers of IPV victimization do not exist.

In regards to the use of ACASI for IPV measurement specifically, there are several closely related papers which give conflicting evidence. [Fincher et al. \(2015\)](#) randomizes ACASI and FTFI among African American women in WIC clinics and find higher levels of IPV in FTFI. [Cullen \(2023\)](#) randomizes IPV measurement between FTFI, ACASI, and alist randomization among Rwandan and Nigerian women, and finds that IPV rates measured by ACASI are similar to FTFI (though much higher in list randomization). [Peterman et al. \(2023\)](#) randomize ACASI and FTFI among women in Senegal and find higher reporting under ACASI.¹¹

An important concern with ACASI is that people may not understand the method. To deal with this, several papers use an approach, similar to our paper, to screen people based on innocuous screening questions. [Peterman et al. \(2023\)](#) find that 11% of respondents do not pass basic screening questions, in the general vicinity of our findings (which range from 12-38% depending on how “passing” the screening is defined, as discussed above). More generally, a number of other studies exist which measure IPV using ACASI, and who employ screening questions (administering the module via FTF in such cases). These include [Dunkle et al. \(2020\)](#), who allowed people to opt out if they didn’t understand or preferred not to use the device (24% of women); [Falb et al. \(2016\)](#), who tested ACASI with adolescent girls in the Democratic Republic of Congo (DRC) and in refugee camps along the Sudan-Ethiopia border, and report that self-reported *average* ACASI comprehension levels are 90% for the DRC and 75% for the Sudan-Ethiopia border, a level similar to our study; and [Park and Kumar \(2022\)](#), a concurrent study to ours in Monrovia, Liberia, find that 10% do not pass screening questions among women in urban areas with higher education. Even if a majority

¹¹In closely related work, [Punjabi et al. \(2021\)](#) find that ACASI leads to greater reporting of gender-based violence among school children in Uganda. However, the context here is not that of violence by intimate partners.

of women do understand questions, even a sizeable minority may drastically affect estimates, since the proportion of women experiencing a specific type of violence is typically low (for example, in our study, the proportion responding yes to physical or sexual IPV over FTFI was about 3-4% in Malawi and 4-9% in Liberia).

Finally, our paper is related to a recent literature about survey methodologies more broadly that aim to preserve respondent confidentiality. The most common alternative involve indirect responses, such as list experiments or randomized response techniques.¹² There is no consensus on the efficacy of these methods.¹³ In regards to IPV specifically, Agüero and Frisanchio (2022) finds no difference in IPV reporting between list randomization and FTFI among urban microfinance borrowers in Lima, Peru, while as mentioned previously Cullen (2023) finds that list randomization dramatically increases IPV reporting.¹⁴

The rest of this paper is laid out as follows. [Section 2](#) describes the experiment and data collection. [Section 3](#) presents our main results. [Section 4](#) discusses evidence on potential pathways and heterogeneity. [Section 5](#) concludes.

2 Data and Experimental Design

2.1 Setting

The ACASI experiment we analyze was done as part of an endline survey for a cash transfer RCT in Liberia and Malawi (the transfers were implemented by the NGO GiveDirectly, as part of a USAID-funded study, [Aggarwal et al. 2023a](#)). The study takes place in Bong and Nimba counties in Liberia, and in Chiradzulu and Machinga districts in Malawi. The

¹²In list experiments, yes/no questions about sensitive behaviors are included in a list with other innocuous binary-response questions, and subjects report the number of items for which the answer is “yes”, allowing the researcher to back out the population-level prevalence of a behavior without being able to identify whether a specific individual engaged in that behavior. The randomized response technique (RRT) bundles a question with a random event, such as a throw of the dice. For instance, respondents are instructed to report truthfully only if the die landed on a certain number.

¹³See [Höglinger and Jann 2018](#), [Lensvelt-Mulders et al. 2005](#), and [Blair et al. 2020](#) for reviews)

¹⁴Researchers have also tried other unconventional methods to measure IPV indirectly, such as asking female community leaders, but these efforts have not been very successful ([Agüero et al. 2020](#)).

study includes 300 villages in each country, with half of the villages receiving cash transfers worth \$500 on average. While we do not evaluate the transfers themselves in this study, one important detail is that villages were included in the study only if they fell below a population threshold, as measured in the most recent population census (in Malawi, the upper threshold was 100 households per village; in Liberia, it was 125). The reason for this is that transfers were given out universally in treatment villages, and so our partner NGO chose smaller villages to be able to preserve their liquidity.

In Liberia, we implemented the project in two waves: a smaller first wave (90 villages), which had its endline in late 2020; and a bigger second wave (210 villages), which had its endline in September-November 2021. Most of our ACASI protocols were developed, tested, and refined over the course of the Wave 1 endline. Therefore, this sample is excluded from our results, and our results for Liberia are restricted to Wave 2 only. In Malawi, all 300 villages were enrolled at once and the endline was in April-July 2021. [Figure A1](#) presents the project timeline.

In both countries, we attempted to enroll 10 households per village into data collection for program evaluation, though in some cases we were only able to enroll fewer households. Surveys were targeted at female heads of households, i.e., either the spouse or partner of the male head for dual-headed households or in rare cases, the solo head for female-headed households (as we show in [Table 1](#), 97% of the sample in both countries had a partner at the time of our study). Male heads of dual-headed households were interviewed only when the female was not present and could not be reached within a few days of the initial visit; when the male head was interviewed, the IPV module was not asked.

2.2 Questionnaire Design and ACASI Experiment

Measuring Intimate Partner Violence

To measure IPV, we employed WHO’s standard Violence Against Women module.¹⁵ The questionnaire includes 20 questions about experience with specific forms of violence, over a time period of 12 months prior to the survey. Following the literature, we group these questions into four categories: controlling behavior, emotional IPV, physical IPV, and sexual IPV. In conducting this module, we followed WHO’s ethics protocol for IPV research, which includes hiring only female enumerators; training enumerators to safely conduct the interviews and to be prepared emotionally for the work; conducting all surveys privately; reiterating consent just before the IPV module; and providing all respondents with an information sheet that listed the services available for women experiencing IPV, including law enforcement and local hospitals (WHO 2016).

The IPV module was attempted to be administered to all women who had an intimate partner within the 12 months preceding the survey. A small percentage (less than 1%) of women refused the IPV questions entirely. In addition, for the ACASI experiment, we excluded all women who reported having vision or hearing impairment (since they could not take the ACASI module); these women administered the module via FTFI and are not included in this paper. About 7% of our sample were excluded for this reason.¹⁶ We also excluded the Liberia Wave 1 sample because most of the ACASI survey protocols were developed and refined throughout that period. With all these restrictions, the sample size for this paper is 2,998 women (1,737 in Malawi and 1,261 in Liberia).

IPV prevalence in each country can be estimated from the most recent Demographic and Health Surveys (DHS), which was conducted in 2020 in Liberia and 2016 in Malawi. The DHS uses an identical module via FTFI, and shows notable differences between the two

¹⁵The WHO’s standard questionnaire for measuring IPV, which is widely used for measuring IPV, can be found here: https://www.who.int/gender/violence/who_multicountry_study/Annex3-Annex4.pdf. Our survey module on IPV can be found in [Appendix F](#).

¹⁶In [Table A2](#), we show that the likelihood of these exclusions was balanced between treatment and control.

countries. In [Table A1](#), we show IPV prevalence for the country as whole as well as within our study regions specifically. In the study area, the reported prevalence of any form of IPV is 32% in Malawi and 57% in Liberia. These figures are significantly higher than the IPV rates observed in our study sample, which are 20% for Malawi and 38% for Liberia; however, the stark difference between the two countries is present in both measurements.

ACASI Implementation

In ACASI, respondents listen to questions on headphones and answer questions privately on a tablet. In each country, audio readings of the questions were recorded by an enumerator who was chosen for having clear enunciation. The recorded audio files were uploaded to SurveyCTO, along with image files for choice options (i.e. “yes” / “no” / “refuse to answer” / “don’t know”). As shown in [Figure A2](#), the resulting interface on the tablet has a speaker icon (which the respondent could touch to listen to the question) and four images (from which the respondent could choose her answer by touching the screen herself).

In the field, the enumerator explained how to take the module, and then demonstrated how to conduct the module by going through a handful of practice and demonstration questions with the respondent, and making sure that she could clearly hear the audio and accurately choose the option she intends to. When the respondent felt ready to take the actual module, the enumerator handed the tablet over to the respondent for her to take the module. In order to make sure that she had complete privacy while doing so, the enumerator kept sufficient distance to be unable to see the screen but remained in the same room or vicinity to be available to answer questions. When the respondent handed back the tablet, the screen was blank so that the responses were blinded to the enumerator.

Experimental Design

In each survey round for each country, half of the sample randomly received ACASI while the other half randomly received FTFI. The randomization was not made in advance but was

done “in the field” via the electronic survey software itself (SurveyCTO). The randomization was not stratified by either of the underlying treatments (cash transfers or market access) in the cash transfer experiment (Aggarwal et al. (2023a), Aggarwal et al. (2023b)). However, Table 1, Panel E shows that the sample is balanced on these treatments.

However, before starting the IPV questions, *every* respondent was asked to take a set of “comprehension” questions via ACASI.¹⁷ The answers to all of these questions are expected to be yes: (1) “Are you a woman?” (2) “Do you live in [the county/district in which the survey is being conducted]?” (3) “In the past week, did you sleep, during day or night?” (4) “In the past year, did it rain in your village one time or more?” and (5) “Have you heard about the Coronavirus?”¹⁸

After answering the SI comprehension module, women began questions in their experimental group (either ACASI or FTFI). As discussed throughout the paper, this module included questions on IPV, but it also included “placebo” questions. These placebo questions were meant to be innocuous and free from any stigma or social desirability bias, and to be a further tool to calibrate the effects of ACASI. They included 4 questions: (1) “Did you do any farm work in the past year?”; (2) “Did you go to the market in the past week?”; (3) “Will you, or anyone in your household, eat rice/maize in the next week, one time or more?”;¹⁹ and (4) “Will you, or anyone in your household, eat meat in the next week, one time or more?” Though the wording of these questions may look cumbersome in English, the specific language was developed after pre-testing to best be understood by the study populations.

¹⁷These comprehension questions were added after piloting, when it became apparent that women were answering unexpectedly to innocuous placebo questions.

¹⁸We also asked one question that would likely be answered “no”: “Have you traveled outside the country in the past week?” We do not use this in our main specifications, however, because some women could potentially travel across borders (especially in Nimba county in Liberia, which borders Guinea, and Machinga district in Malawi, which borders Mozambique), due to which “no” is not a perfect benchmark.

¹⁹This question is about the staple food, which is maize in Malawi and rice in Liberia.

Other Subtreatments

To explore possible technical reasons for misunderstanding, we cross-cut multiple sub-treatments. First, we randomized whether the “yes” or “no” option would appear at the top of the screen (Figure A3). This randomization was implemented in order to test whether respondents are more or less likely to pick the first option. Second, in order to examine possible learning effects in which respondents became more comfortable with the method with more experience, we randomized whether the placebo questions come before or after the IPV module.²⁰

2.3 Summary Statistics and Balance Check

Table 1 shows summary statistics by country sample, as well as the difference between the SI and FTFI groups. Panel A shows household demographics. Because the sample is restricted to women with an intimate partner at any point during the past 12 months, the proportion of women who are currently partnered is very high (97%). The average respondent is about 37-38 years old and lives in a household with 5-6 members. Panel B shows education and mobile phone ownership. Average educational attainment is 5.2 years in Malawi and only 2.4 in Liberia. Sixty-six percent of women in Malawi are literate, compared to 30% in Liberia. Mobile phone ownership is similar in the two countries, ranging from 42% in Liberia to 45% in Malawi.

Panel C shows some indicators of household income and wealth: average total monthly household expenditures are \$26 in Malawi and \$66 in Liberia, or about \$0.17-0.39 in per capita daily expenditures. In Malawi, the average household reports about \$160 worth of assets, compared to \$420 in Liberia. Most of the households in the study villages are subsistence farmers, and the average monthly non-agricultural income measured in our surveys is \$8-10.

²⁰While we ended up not including this in the analysis for this paper, we also randomized the order between the IPV questionnaire and another likely sensitive module, the 9-question Patient Health Questionnaire (PHQ-9), which measures depression. We control for this cross-randomization in relevant analysis shown in Appendix C.

Panel D shows a few proximate indicators related to female empowerment. Forty-four percent of women in Malawi have their own income source, compared to 31% in Liberia. The age difference (in years) between husband and wife is 2.9 in Malawi and 4.1 in Liberia.

Of the 14 variables in this table, we find two for which the differences are significant at 10% in Malawi (food security and total expenditures, which are both lower in the ACASI group), and none in Liberia. While the randomization appears to show no cause for concern, we control for all variables reported in [Table 1](#) for the main analysis.²¹

3 Results

3.1 Comprehension Questions

We start by documenting responses to the five comprehension questions which were administered to all respondents via ACASI. Results, which are shown in [Table 2](#), suggest major cause for concern. Only 95-98% report being a woman, and 91-93% report living in their county/district of residence. Even more surprisingly, only 78-86% report that they slept in the past week and 83-85% report that it rained in the past year. While we do not have a good explanation for these results, an *ex post* explanation from some of our field staff was that some women interpreted the sleep question as “getting a good night’s sleep,” to which some women reported no. A parallel *ex post* explanation for the rain question is that women may have interpreted it as meaning whether it rained “enough.” The reasons for misinterpretation of these questions notwithstanding, the bottom line is that even these simple questions were very likely misinterpreted, raising concerns about how well the more nuanced IPV questions would be understood.

Taking the questions together, we find that only 62% of respondents in Malawi and 70% in Liberia correctly answered all the questions. If we restrict to the 3 simplest questions (gender, location and knowledge of the existence COVID), these numbers become 84% and

²¹Results without controls are qualitatively very similar.

88%. Either way, these responses suggest that many women will not be able to use ACASI effectively, and that it will be difficult to estimate a population level prevalence using ACASI. We are not able to robustly identify sub-populations where ACASI will work well, at least in our sample - we show correlations between “passing” the SI comprehension test (defined as answering yes to the 3 simpler questions) and respondent characteristics in [Table A3](#). In Malawi, we see that more educated and literate women are more likely to “pass” the comprehension test, but the R-squared is only 0.01-0.02. In Liberia, however, these correlations are insignificant. As discussed below, ultimately these correlations are too weak to be usefully used to identify a subgroup that understands the questions.

3.2 Placebo Effects

Next we examine effects of SI on placebo questions, and test whether we can use the comprehension questions to predict which women are more likely to answer correctly using SI. To do this, for each country sample, we run the following regression:

$$Y_i = \beta SI_i + \mathbf{X}_i' \boldsymbol{\theta} + \varepsilon_i, \quad (1)$$

\mathbf{X} is a vector of covariates including all variables in [Table 1](#).²²

Results are presented in [Table 3](#). In Malawi, treatment effects are significant for 3 of 4 outcomes; in Liberia, they are significant for 2 of 4. These results strongly suggest that ACASI will tend to generate spurious treatment effects.²³

As mentioned above, the key goal of the screening questions is to identify a group for whom placebo effects are non-existent. In particular, in [Table 4](#), we examine heterogeneity

²²Results without controls are shown in [Appendix D](#), which are essentially identical.

²³These results are conditional on answering yes or no; we drop those that report “don’t know” or who refused to answer. In [Table A4](#), we examine whether the probability of responding yes or no is correlated with ACASI. We find a small increase in responding “don’t know” or “refuse to answer” for the farm work and market visit questions in Malawi, but a decline for the question about eating maize. In Liberia, we only see a relatively small effect on eating rice. In [Appendix E](#), we show unconditional results, imputing “don’t know” and “refusal” responses with zeros instead of dropping them. These are virtually identical to the main results.

in treatment effects for those who “passed” the comprehension test described above (defined as answering correctly to the gender, location, and COVID questions). However, in both countries, we cannot reject equality of effect sizes for those that passed and those that didn’t, for any question.²⁴ Ultimately, we conclude that the screening questions were ineffective, at least in this setting and for the specific questions we used, in fully identifying those with high comprehension. Future work may usefully explore whether using a separate set of questions may be more effective.

3.3 Effect of ACASI on IPV Reporting

Next, we show the ACASI effects on the main outcome of interest, IPV. We first estimate a regression at the *question* level:

$$IPV_{iq} = \beta SI_i + \mathbf{X}_i' \boldsymbol{\theta} + \psi_q + \varepsilon_{iq} \quad (2)$$

where IPV_{iq} is the binary indicator of whether individual i responded yes to question q , and ψ_q question-level fixed effects. All other notation is the same as Equation (1). We report results separately for each category of IPV: controlling behavior, emotional IPV, sexual IPV, and physical IPV. In a second analysis, we estimate the same equation but for the IPV *index*, which is set equal to 1 if a respondent reported violence on *any* question in that category.

The question-level results are presented in Table 5. For Malawi (Panel A), all effects are statistically significant, and range between 1 (physical IPV) and 9 percentage points (controlling behavior). A specification that pools all question categories together (Column 5) finds a 5 percentage point increase in reporting, also significant. In Liberia (Panel B), effects are slightly more modest, where only 3 of 5 coefficients are significant, and effect sizes range from 1-5 percentage points. However, these effect sizes are similar to those for the placebo effects, and therefore, we cannot rule out the possibility that they are spurious. The

²⁴In the spirit of Table A3, we explore heterogeneity checks by education, mobile phone access, literacy, and age (Table A5 and Table A6). However, we find no consistent pattern.

more modest effects in Liberia are generally consistent with the possibility that some women are randomly answering yes or no: such behavior will cause prevalence to be biased towards 50% and thus will cause more of a distortion when the true prevalence is further from 50%.

These results are shown only for women that answer the questions: we drop women who say “don’t know” or “refuse to answer.” We examine the effect of dropping these women in [Table A7](#). The probability of responding “don’t know” or “refuse to answer” is quite modest in FTFI (1-2%), but SI increases this probability by about 1 percentage point in Malawi and by a smaller amount in Liberia. In order to bound the possible effects of these non-responses, in [Appendix E](#), we re-run our main results with these questions being counted as not having experienced IPV, and the results are very similar.

In [Table 6](#), we show results at the index level. The findings are qualitatively similar to the ones for individual questions, although results here differ dramatically by country. In Malawi, ACASI increases emotional IPV by 10 percentage points (base 16%), physical IPV by 5 percentage points (base 8%), and sexual IPV by 6 percentage points (base 7%). Across all forms of IPV (not including controlling behavior), ACASI increases prevalence by 13 percentage points, a 65% increase on the base of 20%. In Liberia, effects are positive but surprisingly much more modest: the index of any form of IPV increases by only 4 percentage points (on the much higher base of 38%).

4 Investigation of Heterogeneity and Pathways

4.1 Debriefing: Did Technical Problems Impede Understanding?

A simple hypothesis for these results is that technical problems made it hard to understand or complete the ACASI module, and therefore, a technically superior module may eliminate the purported miscomprehension. We believe that this is unlikely because we extensively pre-tested the modules before they were fully rolled out, especially after pilot results showed similar patterns to those reported here. We carefully tested that the audio instructions were

well articulated and read at a reasonable speed, and refined the implementation over time. Nevertheless, technical difficulties could have remained.

To shed light on this possibility, we make use of debriefing information we collected. After the respondent handed back the tablet to the enumerator, the enumerator asked a handful of debriefing questions about whether the respondent had faced any technical or comprehension difficulties during the module, which we present in [Appendix B](#). As shown in [Table B1](#), only 1-2% reported technical issues; most respondents could hear the module, and felt the recordings were slow enough to understand. In [Table B2](#), we regress answers to these technical questions on passing the SI comprehension module. We find no correlation here, which is perhaps not surprising given the low level of technical difficulties. We find no evidence that simple technical problems were the explanation.

On the other hand, we show in [Table B3](#) that 8-12% reported comprehension difficulties with the module, in remembering which picture meant “yes” (a green check) and which meant “no” (a red cross), or in using the tablet. In [Table B4](#), we regress passing the comprehension module on these measures of self-reported comprehension. In both countries, we see that people who reported understanding the module were more likely to have demonstrated doing so in their answers to the module (though significantly so only for one measure). This is consistent with the idea that some people had trouble understanding how the module worked.

4.2 Subtreatments

We also randomized several subtreatments to evaluate technical components of the module (results are presented in [Appendix C](#)). First, to examine whether the location of the choice options on the screen affects reporting, we randomized the order of the yes and no options. This subtreatment was motivated by our suspicion that when in doubt, some women may have the tendency to simply choose the first option. We start by analyzing this for the placebo questions in [Table C1](#), and find evidence that respondents were more likely to choose yes when it appears at the top of the choice options in Malawi for 2 of 4 placebo questions,

although not in Liberia. Surprisingly, however, in [Table C2](#), we find no evidence of the presence of such behavior in either country when it comes to the IPV questions. We have no good explanation for why this may be the case.

Second, in order to check for the possibility that respondents may get better at understanding the module with practice, we randomized the order between the non-sensitive placebo questions and the IPV questions. For half the sample (cross-randomized into FTFI and SI), the IPV questions came before the placebo ones, while for the other half, this order was reversed. For the placebo questions ([Table C3](#)), we find no effect of ordering, other than for the farm work question in Malawi. However, the effect goes contrary to the expected direction as the placebo effect of SI comes about when the placebos come later (i.e., practice does not help). That said, we do not wish to make much of this lone coefficient, as the placebo effect of SI is not significantly different between “placebos first” and “IPV first” in all other cases. For the IPV questions, we report coefficients in [Table C4](#), and find that IPV reporting increases for sexual IPV in Malawi if the placebos come first. Overall, for Malawi, the effect of SI on the probability of answering a question “yes” is about 4 percentage points if the IPV questions come first, but 6 percentage points if the placebos come first (p -value for difference = 0.217). We find no significant effect of the ordering in Liberia either. This finding is consistent with the possibility that survey fatigue causes measurement error to increase, though it is also possible that the increase in IPV is real and that women became more familiar with the module over the course of the survey. We leave a further investigation of this channel to future work.

5 Conclusion

In this paper, we test the efficacy of SI versus FTFI in eliciting truthful responses regarding IPV from female respondents in the context of a cash transfer experiment in rural Liberia and Malawi. Our results suggest that a substantial fraction of women do not understand SI,

as evidenced by the fact that a sizeable minority answer innocuous screening questions incorrectly in SI, and that women respond differentially to placebo questions when administered by SI as opposed to FTFI. This lack of understanding will tend to *increase* IPV reporting, since the true rate of IPV on an individual question is typically much less than 50%. This spurious increase will tend to be more prevalent the further the true IPV prevalence is from 50%; indeed, we find that the effect of SI is more pronounced in Malawi (where prevalence is lower) than in Liberia.

Our results raise concerns about the use of ACASI, at least in these settings. The most troubling implication of our results is that misunderstanding will affect IPV reporting in the same direction as will destigmatization. Because many researchers have a prior that IPV is underreported in FTFI, ACASI may appear to be a better method simply *because* it increases the rate of reporting. However, our paper suggests that researchers should be wary before coming to this conclusion.

Our paper suggests several directions for future research. First, there may be greater benefit from having well-trained, empathetic enumerators than from SI in the context of measuring IPV. For example, in a natural experiment in Serbia, respondents of a WHO-run IPV survey ended up getting randomly assigned to either a previously inexperienced but well-trained enumerator (training duration of 2.5 weeks) or to an experienced, professional enumerator, but with less than a day of IPV training.²⁵ While 21% of the women reported having experienced physical or sexual IPV to the untrained enumerators, 26% reported IPV to the trained ones (Jansen et al. 2004).

Second, if ACASI is used, researchers should implement screening and placebo questions as part of a standard protocol. That at least some women do not understand ACASI has been documented in a number of studies, not only including ours, and thus it is clear that these women should be removed from SI. What is less clear is whether these screening questions are effective in separating those who don't understand from those who do: in our study, even

²⁵This was done in an effort to speed up the fieldwork midway through surveying after the assassination of then Prime Minister Zoran Đinđić in March 2003.

those who passed screening showed placebo effects, and thus the screening questions weren't effective. However, the fact that we at least included the placebo questions allowed us to (ex post) examine the possibility of misreporting.

Overall, we conclude that non-conventional methods to collect data about stigmatized behaviors should be implemented with caution as they may open up unexpected channels of bias. In general, no single method may be a panacea when it comes to truthful elicitation from respondents, and therefore, it is advisable to accompany new methods with extensive testing and other ways of ground-truthing prior to widespread implementation.

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Table 1: Summary Statistics and Experimental Balance

	(1)	(2)	(3)	(4)
	Malawi		Liberia	
	FTFI	SI	FTFI	SI
	Mean [SD]	- FTFI	Mean [SD]	- FTFI
Panel A. Demographics				
=1 if currently married or has partner	0.97	-0.01	0.97	-0.00
		(0.01)		(0.01)
Age	37.97	-0.94	37.13	0.67
	[12.88]	(0.60)	[10.96]	(0.61)
Number of household members	5.03	-0.02	5.59	-0.09
	[1.78]	(0.09)	[2.27]	(0.13)
Panel B. Education and mobile phone ownership				
Years of education	5.22	0.01	2.44	-0.01
	[3.50]	(0.17)	[3.43]	(0.19)
=1 if able to write/read	0.66	-0.01	0.30	0.01
		(0.02)		(0.03)
=1 if has access to mobile phone	0.45	0.03	0.42	-0.01
		(0.02)		(0.03)
Panel C. Household wealth				
Food security index (z-score)	0.00	-0.09*	0.00	0.05
	[1.00]	(0.05)	[1.00]	(0.06)
Total expenditure (monthly)	26.03	-2.13*	65.71	-0.52
	[24.46]	(1.17)	[47.08]	(2.59)
Net value of durables, livestock, and financial asset	162.55	4.24	416.43	33.88
	[235.93]	(11.45)	[823.80]	(51.15)
Non-agricultural income (monthly)	10.27	0.96	7.84	0.85
	[16.73]	(0.81)	[20.52]	(1.13)
Panel D. Empowerment-related outcomes				
=1 if has her own income source	0.44	0.01	0.31	-0.03
		(0.02)		(0.03)
Age difference from spouse	2.94	-0.16	4.09	0.72
	[10.78]	(0.51)	[12.59]	(0.72)
Panel E. Treatment status in parent study				
=1 if in cash transfers villages	0.51	0.01	0.52	-0.02
		(0.02)		(0.03)
=1 if in market access treatment villages	0.36	-0.02	0.34	0.01
		(0.02)		(0.03)
Observations	1,737		1,261	

Note: Sample is restricted to women with an intimate partner over the 12 months prior to the survey, and those who do not report any vision or hearing impairments. Columns 1 and 3 present the mean for the FTFI groups, and Columns 2-4 show the difference between the ACASI and FTFI groups. Standard deviation is in square brackets in Columns 1 and 3 and standard error in parentheses in Columns 2 and 4. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Table 2: Self-interviewing (SI) Comprehension Questions

	(1)	(2)
	Mean (=1 if yes)	
	Malawi	Liberia
<i>Questions for which answer should be yes:</i>		
1. Are you a woman?	0.95	0.98
2. Do you live in [the county/district where the survey is being conducted]?	0.91	0.93
3. In the past week, did you sleep, during day or night?	0.78	0.86
4. In the past year, did it rain in your village one time or more?	0.83	0.85
5. Have you heard about Coronavirus?	0.93	0.94
=1 if YES to all five questions	0.62	0.70
=1 if YES to questions 1,2, and 5	0.84	0.88
Observations	1,737	1,261

Note: These five questions were asked in ACASI to everyone included in ACASI measurement experiment.

Table 3: Effect of Self-interviewing (SI) on Placebo Questions

	(1) Farm work (past year)	(2) Market visit (past week)	(3) Maize/Rice (next week)	(4) Meat (next week)
Panel A. Malawi				
SI	-0.02 (0.01)	0.09*** (0.02)	0.08*** (0.03)	0.11*** (0.03)
FTFI mean	0.94	0.47	0.54	0.29
Observations	1,718	1,713	1,345	1,228
Panel B. Liberia				
SI	0.01 (0.02)	0.08*** (0.03)	-0.04*** (0.01)	-0.01 (0.03)
FTFI mean	0.80	0.67	0.98	0.69
Observations	1,259	1,260	1,226	1,101

Note: Regressions include individual controls (including all variables in Table 1). Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Table 4: Effect of Self-interviewing (SI) on Placebo Questions, Heterogeneity by “Passing” the Comprehension Section

	(1) Farm work (past year)	(2) Market visit (past week)	(3) Maize/Rice (next week)	(4) Meat (next week)
Panel A. Malawi				
SI \times Comprehension Pass (β)	-0.01 (0.01)	0.08*** (0.03)	0.09*** (0.03)	0.10*** (0.03)
SI \times Non-pass (γ)	-0.05 (0.04)	0.11* (0.06)	0.03 (0.07)	0.19*** (0.06)
Comprehension Pass	0.02 (0.03)	-0.02 (0.05)	-0.01 (0.06)	0.03 (0.05)
FTFI \times Non-pass mean	0.92	0.45	0.54	0.23
p -value ($\beta = \gamma$)	0.341	0.687	0.409	0.199
Observations	1,718	1,713	1,345	1,228
Panel B. Liberia				
SI \times Comprehension Pass (β)	0.02 (0.02)	0.07*** (0.03)	-0.03** (0.01)	-0.01 (0.03)
SI \times Non-pass (γ)	-0.01 (0.07)	0.17** (0.07)	-0.08* (0.04)	-0.02 (0.08)
Comprehension Pass	0.09 (0.06)	0.10* (0.06)	0.02 (0.03)	0.03 (0.06)
FTFI \times Non-pass mean	0.72	0.57	0.96	0.65
p -value ($\beta = \gamma$)	0.719	0.219	0.273	0.884
Observations	1,259	1,260	1,226	1,101

Note: “Comprehension Pass” is defined by selecting “yes” to questions 1, 2, and 5 in Table 2. By this alternative definition, 84% in Malawi and 88% in Liberia are in the “Comprehension Pass” group. Regressions are at the respondent-question level. Regressions include individual controls (including all variables in Table 1). Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Table 5: Effect of Self-interviewing (SI) on IPV (Individual Questions)

	(1) =1 if responded yes to <i>individual</i> question in the following category:	(2)	(3)	(4)	(5) All questions pooled
	Controlling Behavior	Emotional IPV	Physical IPV	Sexual IPV	
Panel A. Malawi					
SI	0.09*** (0.01)	0.05*** (0.01)	0.01* (0.01)	0.03*** (0.01)	0.05*** (0.01)
FTFI mean	0.11	0.07	0.03	0.04	0.07
Number of individuals	1,715	1,711	1,712	1,709	1,716
Observations	11,887	6,802	10,181	5,095	33,965
Panel B. Liberia					
SI	0.05*** (0.01)	0.01 (0.02)	0.01 (0.01)	0.03*** (0.01)	0.03** (0.01)
FTFI mean	0.20	0.19	0.09	0.04	0.14
Number of individuals	1,259	1,259	1,259	1,259	1,259
Observations	8,752	5,006	7,508	3,758	25,024

Note: Regressions are at the respondent-*question* level (violence is not aggregated into indexes). See Table 6 for results in which IPV questions are aggregated into indices. Regressions include question-level fixed effects and individual controls (including all variables in Table 1). Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

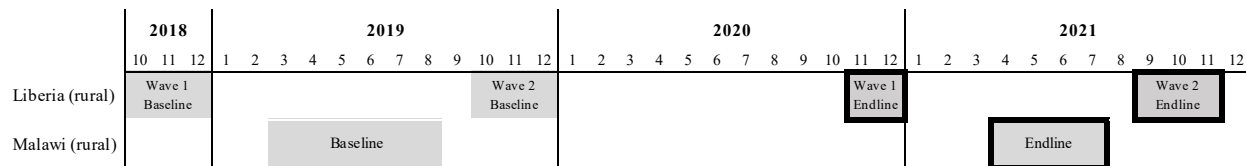
Table 6: Effect of Self-interviewing (SI) on IPV Indices

	(1) =1 if responded yes to <i>at least one</i> question in the following category:	(2)	(3)	(4)	(5) Any IPV
	Controlling Behavior	Emotional IPV	Physical IPV	Sexual IPV	
Panel A. Malawi					
SI	0.18*** (0.02)	0.10*** (0.02)	0.05*** (0.01)	0.06*** (0.01)	0.13*** (0.02)
FTFI mean	0.38	0.16	0.08	0.07	0.20
Observations	1,737	1,737	1,737	1,737	1,737
Panel B. Liberia					
SI	0.07*** (0.03)	0.04 (0.03)	0.01 (0.02)	0.08*** (0.02)	0.04 (0.03)
FTFI mean	0.57	0.34	0.23	0.07	0.38
Observations	1,261	1,261	1,261	1,261	1,261

Note: IPV measures are indexed by category; index is set equal to 1 if the respondent answered “yes” to any question in the category. Regressions include individual controls (including all variables in Table 1). Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Appendix A: Additional Figures and Tables

Figure A1: Timeline of Survey Activities



Note: Bold rectangles refer to the survey rounds where ACASI vs. FTFI randomization was implemented. Liberia Wave 1 sample is excluded from our results in this paper, as most ACASI protocols were developed, tested, and refined during Liberia's Wave 1 Endline.

Figure A2: Self-interviewing Module

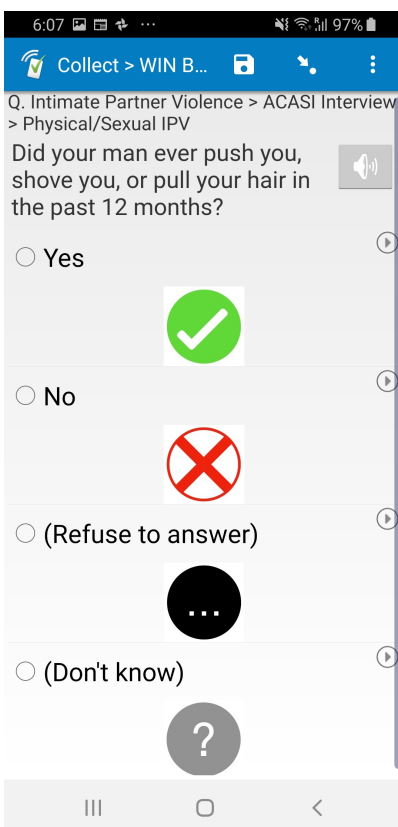
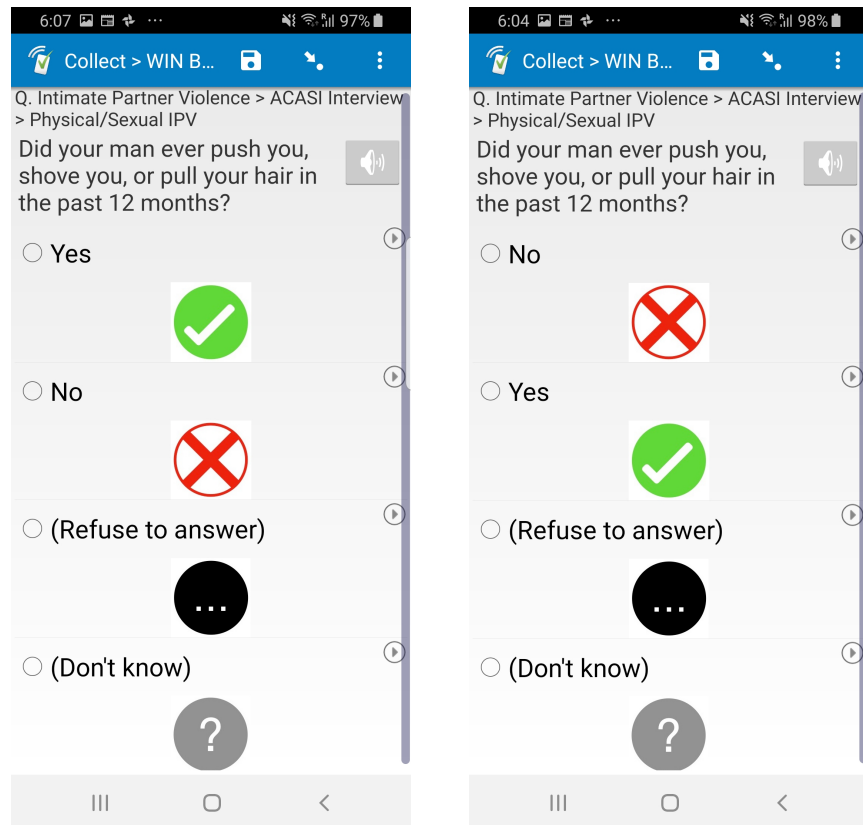


Figure A3: Appearance of Module with “yes” or “no” option appearing first



Notes: Women would see either the display on the left or right.

Table A1: IPV Rates in Demographic and Health Surveys (DHS)

	Emotional IPV	Physical IPV	Sexual IPV	Any IPV
Panel A. Malawi^a				
Country average	0.30	0.26	0.19	0.42
Study area average (Chiradzulu and Machinga districts)	0.23	0.20	0.15	0.32
Panel B. Liberia^b				
Country average	0.42	0.45	0.08	0.55
Study area average (Bong and Nimba counties)	0.48	0.44	0.14	0.57

Note: Reported are IPV incidences from each country's most recent Demographic and Health Surveys (DHS) data. The domestic violence module in DHS are asked via face-to-face interviewing.

^a Malawi DHS 2015-2016

^b Liberia DHS 2019-2020

Table A2: Balance Check in Sample Exclusion

	(1) Refused to all IPV questions	(2) Dropped due to vision/hearing impairment
Experimentally assigned to ACASI	0.001 (0.002)	-0.001 (0.009)
FTEFI mean	0.004	0.068
Observations	3,220	3,220

Note: Observations pooled between Liberia and Malawi samples. Regressions include country sample fixed effects. Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Table A3: Correlates of “Passing” SI Comprehension Questions

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	=1 if passed SI comprehension ^a							
	Malawi				Liberia			
Years of education	0.017*** (0.002)			0.020*** (0.004)	0.001 (0.003)			0.005 (0.004)
=1 if able to write/read		0.091*** (0.020)		-0.004 (0.031)		-0.013 (0.021)		-0.035 (0.031)
=1 if has access to mobile phone			0.014 (0.018)	-0.006 (0.018)			0.004 (0.019)	-0.007 (0.020)
R-squared	0.024	0.014	0.000	0.033	0.000	0.000	0.000	0.023
Mean of dependent variable	0.84	0.84	0.84	0.84	0.88	0.88	0.88	0.88
Observations	1,737	1,737	1,737	1,737	1,261	1,261	1,261	1,261

Note: Columns 1-3 and 5-7 present bivariate regressions. Columns 4 and 8 include all variables in [Table 1](#), but other coefficients are not reported for space. Robust standard error in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

^a Passing threshold is choosing “yes” to questions 1,2, and 5 in [Table 2](#).

Table A4: Effect of SI on Choosing “Don’t know” or “Refuse to answer” in Placebo Questions

	(1)	(2)	(3)	(4)
	Farm work (past year)	Market visit (past week)	Maize/Rice (next week)	Meat (next week)
Panel A. Malawi				
SI	0.013*** (0.005)	0.013** (0.005)	-0.080*** (0.020)	-0.000 (0.022)
FTFI mean	0.005	0.007	0.266	0.294
Observations	1,737	1,737	1,737	1,737
Panel B. Liberia				
SI	0.003 (0.002)	0.002 (0.002)	0.017* (0.009)	-0.011 (0.019)
FTFI mean	0.000	0.000	0.020	0.132
Observations	1,261	1,261	1,261	1,261

Note: Regressions include individual controls (including all variables in [Table 1](#)). Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Table A5: Heterogeneity in Effects of ACASI on Placebo Questions (Malawi)

	(1) Farm work (past year)	(2) Market visit (past week)	(3) Maize/Rice (next week)	(4) Meat (next week)
Panel A. Primary education completion				
SI \times Primary Educ (β)	-0.02 (0.01)	0.10*** (0.03)	0.06 (0.04)	0.07* (0.04)
SI \times No Primary Educ (γ)	-0.01 (0.02)	0.07** (0.03)	0.10*** (0.04)	0.16*** (0.03)
Primary Educ	0.03 (0.02)	0.03 (0.05)	0.04 (0.06)	0.10* (0.05)
FTFI \times No Primary Educ mean	0.93	0.41	0.52	0.22
p -value ($\beta = \gamma$)	0.749	0.659	0.404	0.096
Observations	1,718	1,713	1,345	1,228
Panel B. Access to mobile phone				
SI \times Mobile (β)	-0.01 (0.02)	0.13*** (0.03)	0.09** (0.04)	0.09** (0.04)
SI \times No Mobile (γ)	-0.02 (0.02)	0.05 (0.03)	0.07* (0.04)	0.14*** (0.03)
Mobile	-0.02 (0.02)	-0.02 (0.03)	-0.01 (0.04)	0.00 (0.04)
FTFI \times No Mobile mean	0.95	0.46	0.53	0.26
p -value ($\beta = \gamma$)	0.549	0.096	0.763	0.314
Observations	1,718	1,713	1,345	1,228
Panel C. Able to read/write				
SI \times English (β)	-0.02* (0.01)	0.10*** (0.03)	0.06* (0.03)	0.10*** (0.03)
SI \times No English (γ)	-0.01 (0.02)	0.06 (0.04)	0.12*** (0.05)	0.15*** (0.04)
English	0.03 (0.02)	-0.04 (0.05)	0.01 (0.05)	-0.00 (0.05)
FTFI \times No English mean	0.92	0.40	0.51	0.23
p -value ($\beta = \gamma$)	0.499	0.385	0.239	0.334
Observations	1,718	1,713	1,345	1,228
Panel D. Age				
SI \times Below-median Age (β)	-0.03* (0.02)	0.07** (0.03)	0.04 (0.04)	0.10*** (0.04)
SI \times Above-median Age (γ)	-0.00 (0.02)	0.11*** (0.03)	0.12*** (0.04)	0.13*** (0.04)
Below-median Age	-0.00 (0.02)	0.05 (0.05)	0.05 (0.05)	0.09* (0.05)
FTFI \times Above-median Age mean	0.94	0.41	0.52	0.27
p -value ($\beta = \gamma$)	0.188	0.397	0.120	0.511
Observations	1,718	1,713	1,345	1,228

Note: Regressions include individual controls (including all variables in Table 1). Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Table A6: Heterogeneity in Effects of ACASI on Placebo Questions (Liberia)

	(1) Farm work (past year)	(2) Market visit (past week)	(3) Maize/Rice (next week)	(4) Meat (next week)
Panel A. Primary education completion				
SI \times Primary Educ (β)	0.07 (0.05)	0.00 (0.05)	-0.01 (0.03)	-0.06 (0.06)
SI \times No Primary Educ (γ)	-0.00 (0.02)	0.11*** (0.03)	-0.04*** (0.01)	0.01 (0.03)
Primary Educ	-0.11* (0.06)	0.01 (0.07)	-0.03 (0.03)	-0.06 (0.07)
FTFI \times No Primary Educ mean	0.82	0.66	0.98	0.68
p -value ($\beta = \gamma$)	0.159	0.097	0.194	0.337
Observations	1,259	1,260	1,226	1,101
Panel B. Access to mobile phone				
SI \times Mobile (β)	0.08** (0.03)	0.05 (0.04)	-0.03* (0.02)	0.02 (0.04)
SI \times No Mobile (γ)	-0.03 (0.03)	0.11*** (0.03)	-0.04*** (0.02)	-0.03 (0.04)
Mobile	-0.07** (0.03)	0.09** (0.04)	0.00 (0.01)	-0.00 (0.04)
FTFI \times No Mobile mean	0.83	0.63	0.98	0.69
p -value ($\beta = \gamma$)	0.017	0.293	0.677	0.313
Observations	1,259	1,260	1,226	1,101
Panel C. Able to read/write				
SI \times English (β)	0.02 (0.04)	0.04 (0.05)	-0.02 (0.02)	0.01 (0.05)
SI \times No English (γ)	0.01 (0.03)	0.11*** (0.03)	-0.04*** (0.01)	-0.02 (0.03)
English	0.00 (0.04)	0.03 (0.05)	-0.01 (0.02)	0.01 (0.05)
FTFI \times No English mean	0.81	0.66	0.98	0.69
p -value ($\beta = \gamma$)	0.861	0.203	0.512	0.597
Observations	1,259	1,260	1,226	1,101
Panel D. Age				
SI \times Below-median Age (β)	-0.01 (0.03)	0.09** (0.04)	-0.02 (0.02)	0.01 (0.04)
SI \times Above-median Age (γ)	0.03 (0.03)	0.08** (0.04)	-0.05*** (0.02)	-0.02 (0.04)
Below-median Age	0.04 (0.04)	-0.03 (0.05)	-0.01 (0.02)	0.04 (0.05)
FTFI \times Above-median Age mean	0.82	0.68	0.98	0.70
p -value ($\beta = \gamma$)	0.399	0.816	0.277	0.607
Observations	1,259	1,260	1,226	1,101

Note: Regressions include individual controls (including all variables in Table 1). Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Table A7: Effect of ACASI on Choosing “Don’t know” or “Refuse to answer” in IPV Questions

	(1)	(2)	(3)	(4)	(5)
	=1 if don’t know or refusal to <i>individual</i> question in following category:				All
	Controlling Behavior	Emotional IPV	Physical IPV	Sexual IPV	questions pooled
Panel A. Malawi					
SI	0.011** (0.006)	0.007* (0.003)	0.011** (0.005)	0.006** (0.003)	0.012** (0.006)
FTFI mean	0.017	0.009	0.015	0.007	0.017
Number of individuals	1,737	1,737	1,737	1,737	1,737
Observations	12,159	12,159	12,159	12,159	34,740
Panel B. Liberia					
SI	0.007** (0.003)	0.002 (0.002)	-0.001 (0.003)	0.003** (0.001)	0.004 (0.003)
FTFI mean	0.005	0.004	0.007	0.001	0.006
Number of individuals	1,261	1,261	1,261	1,261	1,261
Observations	8,827	8,827	8,827	8,827	25,220

Note: Regressions are at the respondent-*question* level (violence is not aggregated into indexes). Regressions include question-level fixed effects and individual controls (including all variables in Table 1). Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Appendix B: Self-reported technical and comprehension difficulties

Table B1: Debriefing Survey on Technical Issues with ACASI Module

	(1)	(2)
	Mean (=1 if yes)	
	Malawi	Liberia
Was the audio loud enough to hear?	0.99	0.98
Was the audio speaking speed okay?	0.99	0.98
Observations	866	616

Note: Questions were asked only to those in the ACASI treatment group (i.e., the FTFI group did not get these questions).

Table B2: Relationship between Reporting Technical Difficulties and Correctly Answering Comprehension Questions

	(1)	(2)	(3)	(4)
	=1 if passed SI comprehension ^a			
	Malawi		Liberia	
=1 if said:				
audio loud enough to hear	-0.091 (0.081)		0.036 (0.109)	
audio speaking speed okay		0.026 (0.180)		0.036 (0.109)
R-squared	0.001	0.000	0.000	0.000
Outcome mean when said no	0.92	0.80	0.83	0.83
Observations	866	867	616	615

Note: Robust standard errors are in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

^a Passing threshold is choosing “yes” for questions 1,2, and 5 in [Table 2](#).

Table B3: Debriefing Survey on Comprehension Issues with ACASI Module

	(1)	(2)
	Mean (=1 if yes)	
	Malawi	Liberia
Was it easy for you to remember the meaning of pictures?	0.90	0.90
Was it easy for you to choose answers on the screen?	0.91	0.88
Was it easy for you to move between questions on the screen?	0.92	0.88
Observations	866	616

Note: Questions were asked to the enumerators only when the survey respondent was in the ACASI treatment group (i.e., the enumerators did not get these questions for the FTFI group respondents).

Table B4: Relationship between Reporting Comprehension and Correctly Answering Comprehension Questions

	(1)	(2)	(3)	(4)	(5)	(6)
	=1 if passed SI comprehension ^a					
	Malawi			Liberia		
=1 if said:						
easy to remember the meaning of pictures	0.117** (0.049)			0.101* (0.054)		
easy to choose answers on screen		0.054 (0.048)			0.068 (0.048)	
easy to move between questions on screen			0.057 (0.051)			0.075 (0.048)
R-squared	0.009	0.002	0.002	0.008	0.004	0.005
Outcome mean when said no	0.72	0.78	0.77	0.78	0.81	0.80
Observations	866	865	866	616	616	616

Note: Robust standard errors are in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

^a Passing threshold is choosing “yes” for questions 1, 2, and 5 in [Table 2](#).

Appendix C: Subtreatments

Table C1: Effect of Ordering of Yes and No Options in ACASI on Placebo Questions

	(1) Farm work (past year)	(2) Market visit (past week)	(3) Maize/Rice (next week)	(4) Meat (next week)
Panel A. Malawi				
YES First	-0.02 (0.02)	0.05 (0.03)	0.06* (0.04)	0.07* (0.04)
NO First mean	0.94	0.54	0.58	0.34
Observations	854	851	708	615
Panel B. Liberia				
YES First	0.00 (0.03)	0.03 (0.04)	0.01 (0.02)	-0.01 (0.04)
NO First mean	0.82	0.74	0.94	0.70
Observations	615	616	595	542

Note: Includes only those who are in the ACASI group (FTFI group excluded). Regressions include country sample fixed effects and individual controls (including all variables in [Table 1](#)). Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Table C2: Effect of Ordering of Yes and No Options in ACASI on IPV Questions

	(1)	(2)	(3)	(4)	(5)
	=1 if responded yes to <i>individual</i> question in the following category:				All questions pooled
	Controlling Behavior	Emotional IPV	Physical IPV	Sexual IPV	
Panel A. Malawi					
YES First	-0.01 (0.02)	0.00 (0.02)	0.00 (0.01)	-0.00 (0.01)	-0.00 (0.01)
NO First mean	0.21	0.13	0.05	0.07	0.12
Number of individuals	858	854	855	852	859
Observations	5,915	3,385	5,062	2,531	16,893
Panel B. Liberia					
YES First	-0.01 (0.02)	-0.02 (0.02)	-0.02 (0.02)	-0.02 (0.02)	-0.02 (0.02)
NO First mean	0.25	0.19	0.10	0.08	0.17
Number of individuals	617	617	617	617	617
Observations	4,268	2,446	3,676	1,832	12,222

Note: Includes only those who are in the ACASI group (FTFI group excluded). Observations at respondent-question level. Regressions include question-level fixed effects and individual controls (including all variables in Table 1). Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Table C3: Effect of Placebo Module Position on SI Effects for Placebo Questions

	(1) Farm work (past year)	(2) Market visit (past week)	(3) Maize/Rice (next week)	(4) Meat (next week)
Panel A. Malawi				
SI \times Placebos First (β)	0.01 (0.02)	0.08** (0.03)	0.11*** (0.04)	0.11*** (0.04)
SI \times IPV First (γ)	-0.04** (0.02)	0.08*** (0.03)	0.05 (0.04)	0.12*** (0.03)
Placebos First	0.00 (0.02)	0.00 (0.03)	0.01 (0.04)	0.05 (0.03)
FTFI \times IPV First mean	0.94	0.46	0.54	0.26
p -value ($\beta = \gamma$)	0.036	0.992	0.326	0.895
Observations	1,718	1,713	1,345	1,228
Panel B. Liberia				
SI \times Placebos First (β)	0.03 (0.03)	0.10*** (0.04)	-0.03* (0.02)	0.01 (0.04)
SI \times IPV First (γ)	-0.01 (0.03)	0.07** (0.04)	-0.04** (0.02)	-0.03 (0.04)
Placebos First	-0.01 (0.03)	-0.04 (0.04)	-0.01 (0.01)	-0.04 (0.04)
FTFI \times IPV First mean	0.81	0.69	0.98	0.70
p -value ($\beta = \gamma$)	0.356	0.633	0.610	0.446
Observations	1,259	1,260	1,226	1,101

Note: Regressions include individual controls (including all variables in Table 1) and the order between IPV module and PHQ-9 module. Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Table C4: Effect of Placebo Module Position on SI Effects for IPV Questions

	(1)	(2)	(3)	(4)	(5)
	=1 if responded yes to <i>individual</i> question in the following category:				All
	Controlling Behavior	Emotional IPV	Physical IPV	Sexual IPV	questions pooled
Panel A. Malawi					
SI \times Placebos First (β)	0.10*** (0.02)	0.05*** (0.02)	0.02** (0.01)	0.05*** (0.01)	0.06*** (0.01)
SI \times IPV First (γ)	0.08*** (0.01)	0.05*** (0.01)	0.00 (0.01)	0.01 (0.01)	0.04*** (0.01)
Placebos First	0.01 (0.01)	0.02 (0.01)	-0.01 (0.01)	-0.01 (0.01)	0.00 (0.01)
FTFI \times IPV First mean	0.11	0.06	0.04	0.04	0.07
p -value ($\beta = \gamma$)	0.275	0.916	0.276	0.030	0.217
Observations	11,887	6,802	10,181	5,095	33,965
Panel B. Liberia					
SI \times Placebos First (β)	0.05*** (0.02)	-0.00 (0.02)	0.00 (0.02)	0.02 (0.01)	0.02 (0.02)
SI \times IPV First (γ)	0.05** (0.02)	0.02 (0.02)	0.01 (0.02)	0.04** (0.02)	0.03** (0.02)
Placebos First	0.00 (0.02)	0.00 (0.02)	0.01 (0.02)	0.00 (0.01)	0.01 (0.01)
FTFI \times IPV First mean	0.20	0.19	0.09	0.04	0.14
p -value ($\beta = \gamma$)	0.965	0.415	0.587	0.415	0.614
Observations	8,752	5,006	7,508	3,758	25,024

Note: Observations at respondent-question level. Regressions include question-level fixed effects, individual controls (including all variables in Table 1), and the order between IPV module and PHQ-9 module. Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Appendix D: Main results, without controls

Table D1: Effect of Self-interviewing (SI) on Placebo Questions, no individual controls

	(1) Farm work (past year)	(2) Market visit (past week)	(3) Maize/Rice (next week)	(4) Meat (next week)
Panel A. Malawi				
SI	-0.02 (0.01)	0.08*** (0.02)	0.06** (0.03)	0.09*** (0.03)
FTFI mean	0.94	0.47	0.54	0.29
Observations	1,718	1,713	1,345	1,228
Panel B. Liberia				
SI	0.02 (0.02)	0.09*** (0.03)	-0.04*** (0.01)	-0.00 (0.03)
FTFI mean	0.80	0.67	0.98	0.69
Observations	1,259	1,260	1,226	1,101

Note: Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Table D2: Effect of Self-interviewing (SI) on IPV Reporting in Individual Questions, no individual controls

	(1) =1 if responded yes to <i>individual</i> question in the following category:	(2)	(3)	(4)	(5) All questions pooled
	Controlling Behavior	Emotional IPV	Physical IPV	Sexual IPV	
Panel A. Malawi					
SI	0.09*** (0.01)	0.06*** (0.01)	0.01* (0.01)	0.03*** (0.01)	0.05*** (0.01)
FTFI mean	0.11	0.07	0.03	0.04	0.07
Number of individuals	1,715	1,711	1,712	1,709	1,716
Observations	11,887	6,802	10,181	5,095	33,965
Panel B. Liberia					
SI	0.05*** (0.01)	0.00 (0.02)	0.00 (0.01)	0.03*** (0.01)	0.02** (0.01)
FTFI mean	0.20	0.19	0.09	0.04	0.14
Number of individuals	1,259	1,259	1,259	1,259	1,259
Observations	8,752	5,006	7,508	3,758	25,024

Note: Regressions are at the respondent-*question* level (violence is not aggregated into indexes). See [Table D3](#) for results in which IPV questions are aggregated into indices. Regressions include question-level fixed effects. Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Table D3: Effect of Self-interviewing (SI) on IPV Indices, no individual controls

	(1)	(2)	(3)	(4)	(5)
	=1 if responded yes to <i>at least one</i> question in the following category:				Any IPV
	Controlling Behavior	Emotional IPV	Physical IPV	Sexual IPV	
Panel A. Malawi					
SI	0.18*** (0.02)	0.11*** (0.02)	0.05*** (0.01)	0.06*** (0.01)	0.14*** (0.02)
FTEI mean	0.38	0.16	0.08	0.07	0.20
Observations	1,737	1,737	1,737	1,737	1,737
Panel B. Liberia					
SI	0.07** (0.03)	0.03 (0.03)	0.01 (0.02)	0.07*** (0.02)	0.03 (0.03)
FTEI mean	0.57	0.34	0.23	0.07	0.38
Observations	1,261	1,261	1,261	1,261	1,261

Note: IPV measures are indexed by category; index is set equal to 1 if the respondent answered “yes” to any question in the category. “Comprehension Pass” is defined by selecting “yes” to all questions in [Table 2](#). Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Appendix E: Main results, unconditional on “don’t know” or “refuse to answer”

Table E1: Effect of Self-interviewing (SI) on Placebo Questions, unconditional sample

	(1) Farm work (past year)	(2) Market visit (past week)	(3) Maize/Rice (next week)	(4) Meat (next week)
Panel A. Malawi				
SI	-0.03** (0.01)	0.08*** (0.02)	0.10*** (0.02)	0.07*** (0.02)
FTFI mean	0.94	0.47	0.40	0.21
Observations	1,737	1,737	1,737	1,737
Panel B. Liberia				
SI	0.01 (0.02)	0.08*** (0.03)	-0.05*** (0.01)	0.00 (0.03)
FTFI mean	0.80	0.67	0.96	0.60
Observations	1,261	1,261	1,261	1,261

Note: Observations for which people responded “don’t know” or refused to answer are imputed with zeroes, instead of being dropped. Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Table E2: Effect of Self-interviewing (SI) on IPV Reporting in Individual Questions, unconditional sample

	(1) =1 if responded yes to <i>individual</i> question in the following category:	(2)	(3)	(4)	(5) All questions pooled
	Controlling Behavior	Emotional IPV	Physical IPV	Sexual IPV	
Panel A. Malawi					
SI	0.09*** (0.01)	0.05*** (0.01)	0.01* (0.01)	0.03*** (0.01)	0.05*** (0.01)
FTFI mean	0.11	0.07	0.03	0.04	0.07
Number of individuals	1,737	1,737	1,737	1,737	1,737
Observations	12,159	6,948	10,422	5,211	34,740
Panel B. Liberia					
SI	0.05*** (0.01)	0.01 (0.02)	0.01 (0.01)	0.03*** (0.01)	0.03** (0.01)
FTFI mean	0.20	0.19	0.09	0.04	0.14
Number of individuals	1,261	1,261	1,261	1,261	1,261
Observations	8,827	5,044	7,566	3,783	25,220

Note: Observations for which people responded “don’t know” or refused to answer are imputed with zeroes, instead of being dropped. Regressions are at the respondent-*question* level (violence is not aggregated into indexes). See [Table D3](#) for results in which IPV questions are aggregated into indices. Regressions include question-level fixed effects. Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Table E3: Effect of Self-interviewing (SI) on IPV Indices, unconditional sample

	(1)	(2)	(3)	(4)	(5)
	=1 if responded yes to <i>at least one</i> question in the following category:				Any
	Controlling Behavior	Emotional IPV	Physical IPV	Sexual IPV	IPV
Panel A. Malawi					
SI	0.18*** (0.02)	0.10*** (0.02)	0.05*** (0.01)	0.06*** (0.01)	0.13*** (0.02)
FTFI mean	0.38	0.16	0.08	0.07	0.20
Observations	1,737	1,737	1,737	1,737	1,737
Panel B. Liberia					
SI	0.07*** (0.03)	0.04 (0.03)	0.01 (0.02)	0.08*** (0.02)	0.04 (0.03)
FTFI mean	0.57	0.34	0.23	0.07	0.38
Observations	1,261	1,261	1,261	1,261	1,261

Note: Observations for which people responded “don’t know” or refused to answer are imputed with zeroes, instead of being dropped. IPV measures are indexed by category; index is set equal to 1 if the respondent answered “yes” to any question in the category. Robust standard errors in parentheses. ***, **, and * represent significance at 1%, 5%, and 10%, respectively.

Appendix F: Survey instrument

Non-sensitive placebo questions²⁶

1. Did you do any farm work in the past year?
2. Did you go to the market in the past week?
3. Will you, or anyone in your household, eat any [rice/maize] next week, one time or more?
4. Will you, or anyone in your household, eat any type of meat next week, one time or more?

Controlling behavior

1. Did your man ever try to keep you from seeing your friends in the past 12 months?
2. Did your man ever try to stop you from meeting or speaking to your family of birth in the past 12 months?
3. Did your man ever need to know where you are all the time in the past 12 months?
4. Did your man ever stop talking to you or treat you with no interest in the past 12 months?
5. Did your man ever get angry if you speak with another man in the past 12 months?
6. Did your man often think that you are unfaithful in the past 12 months?
7. In the past 12 months, did your man ever expect you to ask for his approval before you go to a health clinic or hospital?

Emotional IPV²⁷

1. Did your man ever insult you or make you feel bad about yourself in the past 12 months?
2. Did your man ever make you feel small in front of other people in the past 12 months?
3. Did your man ever mean to scare you (for example, by the way he looked at you, by yelling and bursting things) in the past 12 months?
4. Did your man ever threaten to hurt you or someone you care about in the past 12 months?

²⁶Some questions asked in the ACASI Comprehension module were re-asked later either by SI or by FTFI. For placebo effects analysis, we exclude those questions and include only the four questions listed here, which were not previously asked to check comprehension.

²⁷ For each IPV question (whether emotional, physical or sexual), if the answer is “yes”, a follow-up question about frequency appears, asking whether it happened (i) one or two times, (ii) three to five times, or (iii) more than five times.

Physical IPV

1. Did your man ever slap you or throw something at you that could hurt you in the past 12 months?
2. Did your man ever push you, shove you, or pull your hair in the past 12 months?
3. Did your man ever hit you with his hand or with something else that could hurt you in the past 12 months?
4. Did your man ever kick you, drag you or beat you up in the past 12 months?
5. Did your man ever mean to choke or burn you in the past 12 months?
6. Did your man ever threaten to use or actually use a gun, knife or other weapon against you in the past 12 months?

Sexual IPV

1. Did your man ever physically force you to do man and woman business when you did not want to in the past 12 months?
2. Did you ever do man and woman business when you did not want to because you were afraid of what your man might do in the past 12 months?
3. In the past 12 months, while doing man and woman business, did your man ever force you to do something that made you feel small or bad about yourself?

Appendix H: ACASI training

Training of the ACASI module was done through an interactive play with an electronic tablet/mobile phone that enumerators used for data collection.

Examples of ACASI instruction questions

1. ***Enumerator: Does the respondent have hearing or seeing difficulties?
2. ***Enumerator: Did this respondent give up after trying to complete the ASACI section?
3. Have you ever used a mobile phone with touchreen like this before?
4. Please touch to choose the orange circle on the phone.
5. Please touch to choose the green circle on the phone.
6. Are you facing any problems seeing the screen of this phone?
7. I would like to try with you today a new type of interviewing. For these questions, instead of me asking you the questions directly, as we have done so far, you will be answering the questions yourself by listening to a recorded message on this phone. I will hand over the phone to you with the earphones for listening to the questions. It's okay if you haven't used a phone like this before, I am here to help if needed. I will show how you can select the answers for each question. Also, please feel free to make any comments or ask any questions. We are trying to make this new type of interviewing easy to use for everyone, so your opinion is very important to us!
8. In this new type of interviewing, on each page there will be a recorded question. The first type of questions will ask you if something happened or not. To listen to the question, press this button. (***Enumerator: direct the respondent to the button). If you want to listen to the question again, you can press this button again. (***Enumerator: press the button again).

If your answer to the recorded question is “yes”, press here. (***Enumerator: show the sign). This sign with the checkmark always means ”yes”.

If your answer to the recorded question is “no”, press here. (***Enumerator: show the sign). This sign with the cross always means “no”.

If you don't know the answer to the recorded question, you can press here. (***Enumerator: show how). This sign with the question mark always means you don't know how to answer the question.

If you don't want to answer the recorded question, you can press here. (***Enumerator: show the sign). This sign with the arrow moving forward always means you don't want to answer this question.”

9. Can you please tell what this button in the corner always does? (**Enumerator: show the button).

Can you please tell what the sign with the checkmark always means? (**Enumerator: show the sign).

Can you please tell what the sign with the cross always means? (**Enumerator: show the sign).

Can you please tell what the sign with the question always means? (**Enumerator: show the sign).

Can you please tell what the sign with the arrow always means? (**Enumerator: show the sign)."

10. After you choose your answer, you must swipe on the screen like this to go to next page. (**Enumerator: show how). You can also go back to listen to past questions, by swiping this way (**Enumerator: show how). Don't worry about moving between questions - your answers will be kept.

11. At any time, if you don't understand the question or face any problems, please let me know right away. If you are ready, I will hand over the phone with the earphones to you so that you can start with a short test run.

Remember that you are not talking with someone over the phone. You are just listening to a recorded message. So, do not say your answer out loud. Instead, select your answer on the tablet by yourself.

Examples of ACASI practice questions

1. Let's say your response is "yes". Press "yes" below.
2. Let's say your response is "no". Press "no" below.
3. Let's say your response is "once or twice." Choose that option below.
4. Let's say your response is "three to five times." Choose that option below.
5. Let's say your response is "more than five times." Choose that option below.
6. Let's say you don't know the answer to the question. Choose that option below.
7. Let's say you don't want to answer the question. Choose that option below.