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Measuring the measurement error:
A method to qualitatively validate sensitive survey data*

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June 11, 2014

Abstract

People may under-report sensitive and risky behaviors such as violence or substance abuse in surveys. Misreporting correlated with treatment is especially worrisome in causal analysis. We develop and test a survey validation technique that uses intensive qualitative work to check for measurement error in random subsamples of respondents. Trained local researchers spent several days speaking with and observing respondents within a few days of their survey, validating six behaviors: four potentially sensitive (crime, drug use, homelessness, gambling) and two non-sensitive (phone charging and video club expenditures). Subjects were enrolled in a randomized trial designed to reduce poverty and anti-social behaviors. We find no evidence of underreporting of sensitive behaviors, partly because (we discovered) stigma in this population is low. Non-sensitive expenditures were underreported, however, especially by the control group, probably because of strategic behavior and recall bias. The main contribution is a replicable validation method for observable, potentially sensitive behaviors.

*Acknowledgments: For comments we thank Nand Rock, Dan Costange, Macartan Humphreys, Don Green, Cyrus Samii, and participants at the NYU 2014 CEES conference. This study was made possible through the financial support of the National Science Foundation (SES-1317506), the World Bank LOGCA Trust Fund, the GLM L&C Programme of DFID and EA, a Vanguard Charitable Trust, and the American People through the United States Agency for International Development's (USAID) DCEA, CM31 office. The contents of this study are the sole responsibility of authors and do not necessarily reflect the views of their employers or any of these funding agencies or governments. Finally, for research assistance we thank Paddy Bunch Jr., Natalie Carlson, Cassie Duvoy, Mackelle Esmerino, Yungwan Guo, Rufus Kaprioko, James Kofie, Rebecca Littman, Richard Peck, Consultant Pava-Heldrick, Joe St. Clair, Joseph Sango Jr., Helen Smith, Abel Wabunan, Prince Williams, and John Zepay through Innovations for Poverty Action (IPA).

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Electronic copy available at: <http://dx.doi.org/10.2139/ssrn.2448048>

Measuring the measurement error: a method to qualitatively validate sensitive survey data

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