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Learning from Others' HIV Testing: Updating Beliefs and Responding to Risk

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Extending the seminal work of von Neumans and Morgenstora (1944), Savage (1954) advanced a theory that allows decision maken to maximize expected utility based on subjective probabilities of different states when objective probabilities are unknown. Since then, as extensive theoretical and empirical linearature he explored how beliefs are formed or updated and how they affect behavior (Dominita and Manok 1997; Manoki 2004). One line of nesearch has undied subjective beliefs in the context of testing and learning meanls for a variety of health conditions such as Huntington's disease, corrival career, and breast career (Oster, Shoulson and Doney 2012; Sockhe, Adeptsi, and Apenting 2013; and Lange 2011, among others). In the context, receiving a diagnosis prevides objective information that individuals can use to mak decisions, optimizing for the future. In context on noncommunicable diseases, some disease such as BIV, allow for behavioral responses to senian that can affect the senion of the disease.

In this paper we examine how beliefs and behavior are affected by HIV testing in rural Malawi. We extend the existing literature by studying the impact of others' testing on

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*To view additional materials, and author disclosure statement (s), shift the article page at lates/sh.des.org/10.275/law.203.3.479. individual perceptions of AIDS risk and subse-

Prior research on BIV testing has focused on measuring the effects of an individual learning her own test result. Several studies have found behavioral susponess to changes in beliefs after testing (de Phala, Shapira, and Todd 2011) and that subjective expectations play as irraportant role in the decision about risky or safe sexual behavior (Delavande and Kohier 2012). Thorston (2012) finds that learning HIV results has only short some effects on subjective beliefs which do not persiat after two years. Goldhasin et al. (2008) find that HIV-positive mothers who learn their status an more likely to necesive met-

Test results may lead to behavior change when ex ante beliefs about probabilities of possible states are inaccurate or uncertain. Booner and Philipson (2000) and Gong (2012) find behavior change only among those who learned now information after an HIV test.

Learning one's own HIV results can be informative for determining personal HIV risk. As the same time, as others hom their HIV resultinformation is re-vealed about external HIV risk Research suggests that individuals overcedirant HIV prevalence, transmission rates, as well a their own like blood of individuals overcedirant HIV prevalence areas in Africa, deaths are oftesuributed to AIDS even when the exact cans is unknown (Auglewicz and Kohler 2009). J Bayesian updater, who initially overestimate HIV risk, is likely to revise beliefs downward is some people in his contransity learns they are HIV progrive. If individuals revise their beliefs about fish downward, sexual behavior may become more risky in exponse.

Prior studies that examine the relationship between prevalence rates and beliefs or behavior are limited by the fact that prevalence rate are endogenous to beliefs and behavior. Som

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An individual who takes an HIV test can be informed about their own status and risk. Similarly, when friends, family or neighbors learn of a person's HIV status, they may update their beliefs about HIV infection among people they know. Using an experiment conducted in rural Malawi which randomly assigned incentives to learn HIV results, we find that as people in the community learn their HIV results, individuals revise their beliefs downward about deaths attributable to HIV/AIDS. We find corresponding behavioral responses with a significant decrease in condom use and no significant increase in multiple partnerships among those who are HIV-negative.



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