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An Equilibrium Model of the African HIV/AIDS Epidemic

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Abstract

Eleven percent of the Malawian population is HIV infected. Eighteen percent of sext encounters are casual. A condom is used one quarter of the time. A choice-theoret general equilibrium search model is constructed to analyze the Malawian epidemic the developed framework, people select between different sexual practices while knowing the inherent risk. The analysis suggests that the efficacy of public policy depends upon the induced behavioral changes and general equilibrium effects the are typically absent in epidemiological studies and small-scale field experiments. I some interventions (some forms of promoting condoms or marriage), the quantitat exercise suggests that these effects may increase HIV prevalence, while for others (such as male circumcision or increased incomes) they strengthen the effectivene of the intervention. The underlying channels giving rise to these effects are discuss in detail.

Keywords

Bayesian learning, circumcision, condoms, disease transmission, HIV/AIDS, home economicus, Malawi, marriage, policy intervention, sex markets, search, STDs

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