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> > Price Subsidies, Diagnostic Tests, and Targeting of Malaria Treatment: Evidence from a Randomized Controlled Trial[

> > > By Jessica Cohen, Pascaline Dupas, and Simone Schaner

Both under- and over-treatment of communicable diseases are public hads. But efforts no decrease one run the risk of increasing the other. Using rich experimental data on household transment-seeking behavior in Kenyo, we study the implications of this trade-off for subsidicing life avoing antimolarials sold wor-the-counter at retail strag outlets. We show that a very high subsidy (such as the one under consideration by the interestional community) dismonstrally increases access, but nearly one-half of subsidized pills go to patients without malaria. We study two ways to better target subsidized drags: reducing the subsidy level, and introducing rapid malaria texts over-the-counter. (IEL D12, D82, 112, O12, O15)

Limiting the spread of infectious diseases has positive spillovers. As such, subsidies for prevention and treatment products are often central to infectious disease programs. Financing such subsidies is obviously subject to a budget constraint, however, and it is important to ensure that subsidy dollars are speat where they have the highest return. For products whose usage has beterogeneous returns, the introduction of a subsidy creates a trade-off between access and targeting. That is, subsidies for the product are likely to increase dermand among both those for whom the health sentines are high and among those for whom the private health benefits are marginal (and the social returns possibly negative). The problem of how to set pices in the context of this type of moral hazard has been dubbed the "memo-setting problem" by Olmstead and Zeckhauser (1999).

This paper studies the mean-setting problem introduced by subsidies for the latest class of antimularials, artemisinin combination therapies (ACTs). This setting

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Both under- and over-treatment of communicable diseases are public bads. But efforts to decrease one run the risk of increasing the other. Using rich experimental data on household treatment-seeking behavior in Kenya, we study the implications of this trade-off for



subsidizing life-saving antimalarials sold over-the-counter at retail drug outlets. We show that a very high subsidy (such as the one under consideration by the international community) dramatically increases access, but nearly one-half of subsidized pills go to patients without malaria. We study two ways to better target subsidized drugs: reducing the subsidy level, and introducing rapid malaria tests over-the-counter.

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