

'Coca-Cola' model for delivering malaria meds is a success, researcher says

November 13 2012, by Catherine Zandonella

(Medical Xpress)—A controversial program that uses the private market to provide affordable malaria treatments to people in Africa has dramatically increased access to care and should be continued, [according to a policy article](#) by scholars including Ramanan Laxminarayan of Princeton University in the Nov. 2 issue of the journal *Science*.

The researchers stated that the two-year old pilot program, which is up for renewal this November and enables reduced-price [malaria drugs](#) to be sold in shops and market stalls, successfully broadened the availability of effective malaria therapies and reduced the use of less effective treatments that promote drug-resistance.

The private-market approach—sometimes called the Coca-Cola model in reference to the soda's apparent ability to reach remote areas of the world—aims to deliver drugs in regions where the majority of people obtain medicines from shops rather than from district hospitals or clinics.

"This experiment demonstrates that we can use private distribution mechanisms to make treatments available in rural areas," said Laxminarayan, a research scholar in the Princeton Environmental Institute, lecturer in economics at Princeton University and director of the Center for Disease Dynamics, Economics and Policy in Washington, D.C.

Laxminarayan co-authored the *Science* article with Kenneth Arrow,

professor of economics at Stanford University and a 1972 Nobel laureate in economics; Dean Jamison, professor of global health at the University of Washington in Seattle; and Barry Bloom, Harvard University Distinguished Service Professor at the Harvard School of Public Health.

The researchers found that the program, known as the Affordable Medicines Facility - malaria (AMFm), enhanced access to the most effective malaria medicine, known as artemisinin combination therapy (ACT), while reducing purchases of less-effective drugs, such as artemisinin alone, which has been shown to promote artemisinin-resistance.

ACT prices were lowered by a range of US \$1 to US \$5 per dose in the five countries that substantially implemented the program, according to results [published](#) in the Oct. 31, 2012 issue of *The Lancet*. The price-reductions were achieved via negotiations with manufacturers and subsidies from donors. The program operated in seven African countries (Ghana, Kenya, Madagascar, Niger, Nigeria, Tanzania and Uganda) and was organized by the Global Fund to Fight AIDS, Tuberculosis, and Malaria.

Controversial when first proposed (see "[Malaria Drugs, the Coca-Cola Way](#)" in *Science*, Nov. 21, 2008), the private-market approach is a departure from government-run programs that rely on healthcare workers or clinics to distribute free or subsidized malaria drugs. Critics worried that the approach was unproven and that distributors might pocket the subsidies, according to the 2008 article.

The success of Coca-Cola and other goods at making it to rural markets stems from the fact that someone makes money at every step in the distribution chain, Laxminarayan said. Making malaria drugs available at low prices to distributors and retailers enables these distribution chains to carry ACTs to distant marketplaces, he said.

More information: www.sciencemag.org/content/338/6107/615

Provided by Princeton University

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