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New Evidence that Mass Treatment with Ivermectin Has Halted Spread of River Blindness in Two Nigerian States; Separate Study Shows Drug's Potential to Interrupt West Nile Virus Transmission in US

Two Ivermectin Studies at ASTMH Annual Meeting:

Eliminating river blindness in two Nigerian states a first for this major hotspot could invigorate decades-long effort to deploy ivermectin to eliminate disease globally

Work in California and Colorado shows potential to reduce West Nile Virus transmission in humans by mixing ivermectin into bird **-COVID value**

Arlington, Va. (November 18, 2021) New data indicate that mass treatment with ivermectin—a drug that was a workhorse of tropical medicine long before it emerged as a controversial COVID-19 treatment—has eliminated river blindness transmission in two states in Nigeria, the first Nigerian states to achieve this distinction in a country that has the world's highest burden of the disease.

The [findings](#), presented today at the annual meeting of the American Society of Tropical Medicine and Hygiene (ASTMH) by [researchers from The Carter Center and Nigeria's federal](#)

donation of ivermectin, and many donors and partners. But we are hoping this success can accelerate elimination efforts elsewhere in Nigeria and throughout Africa.”

In a [separate presentation](#), The Carter Center’s Dr. Emmanuel Emukah reported that there is also evidence that disease transmission has been “interrupted” in Nigeria’s Delta State. Interruption is a critical first step towards achieving elimination since it allows ivermectin treatments to be stopped and post-treatment surveillance to be launched before elimination is declared. He also presented evidence indicating that four other Nigerian states may soon reach the interruption stage.

While the US Food and Drug Administration warns [against using ivermectin](#) for treating COVID-19, [in 1998](#) it found that ivermectin was safe and effective in humans for treating river blindness and a human intestinal infection caused by parasitic worms known as strongyloidiasis. River blindness elimination efforts have focused on mass drug administration (MDA) campaigns in which a single dose of ivermectin—and in a form approved for(m)-3(hass()-4)5(nd)3(huen)3(s)11(ETQD.0000

“We found that widespread use of ivermectin in backyard birdfeeders could reduce neighborhood transmission of West Nile Virus by about 60%,” said lead author Dr. Karen Holcomb, a recent PhD graduate from the [Chris Barker lab](#) at UC Davis School of Veterinary Medicine. “That’s because a low dose of ivermectin is harmless for birds, but it gets in their blood and can be lethal for mosquitoes that feed on them.”

Holcomb said the approach could help prevent or control local outbreaks like the one that led to more than [800 confirmed and probable cases in Arizona](#) earlier this year and killed 67 people. The disease often causes thousands of infections each year and even people who have few symptoms from WNV can [experience long-term](#) neurological problems. There are no drugs to cure an infection or vaccines for humans to prevent the disease, which emerged in the U.S. in 1999 and is now found in every state except Alaska and Hawaii.

Holcomb and her colleagues initially used backyard chickens to test whether mixing ivermectin into birdfeed could have a large enough impact on mosquito populations to affect WNV transmission. They found evidence of increased

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About the American Society of Tropical Medicine and Hygiene

The American Society of Tropical Medicine and Hygiene, founded in 1903, is the largest