

In the second study, scientists from Wageningen University in the Netherlands and the Ifakara Health Research Center in Tanzania hung black cotton sheets smeared with the Metarhizium anisopliae fungus in five huts in a Tanzanian village while clean black sheets were hung in five control huts.

Mosquitoes were collected alive for three weeks. About 23 percent of those caught in the huts with fungus sheets had fungus infections, and they typically died in less than four days, compared with more than nine days for fungus-free mosquitoes.

Since mosquitoes normally bite several times before they die, the fungus reduced potential malaria transmission by 75 percent, said Dr. Bart G. J. Knols, a Wageningen University entomologist.

But the lethality of the spores slowly faded, so spraying would have to be done monthly, which is not very practical in rural Africa, Dr. Knols said.

Still, another researcher, Kija Nghabi of Tanzania, noted that the cloth was impregnated with fungus "using very crude tools."

With machine-impregnated cloth and more virulent fungus strains, the results would probably improve, he said.

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The Metarhizium fungus is sold as Green Muscle for locusts in South Africa and as BioBlast for termite control in the United States. The Environmental Protection Agency says it is harmless to humans even if swallowed or inhaled.

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