

The Resistant Mosquito

Video Transcript

Insecticide Resistance Management in Nsuhya

FREDROS: You have reached Week 3 and will be entering the final stages of our course. Keziah and I are excited that you have come so far. In this week, we will be taking all we have learned during the past two weeks and find out how we can put this into practice.

KEZIAH: In Nsuhya, as in many other areas, we have seen a change in the effectiveness of the vector control interventions deployed. A greater number of mosquitoes seemed to be surviving, and monitoring studies showed that they were less susceptible to the insecticides being used than they used to be.

FREDROS: In Week 2, we explored insecticide resistance, and the impact it can have on mosquito control. And why it is so important to take action to minimise the selection of insecticide-resistant mosquito populations.

KEZIAH: We have also seen how important it is to monitor the mosquito populations to evaluate if they are still susceptible to the insecticides in use, or to identify insecticide classes to which they are susceptible. An understanding of the mechanisms of insecticide resistance will also help us to choose the most appropriate interventions.

FREDROS: Nsuhya is faced with an increasing problem. Insecticide resistance has reduced the efficacy of insecticide-based interventions. It seems that malaria is increasing.

KEZIAH: This highlights the need to be proactive, developing vector control programmes that are sustainable, by minimising the selection of resistant mosquito populations. So, what does this look like? This week, we will investigate how to implement integrated vector control solutions that both maximise mosquito control, whilst minimising selection for resistance.

FREDROS: We will explore in greater detail how insecticide resistance management works by first looking at the theory, then the practice. We will discuss how to implement IRM in the real world, and how it forms part of the wider integrated approaches to malaria vector control.

KEZIAH: At the end of the week, you can make a final attempt at the 'serious game' Resistance 101 to see how you have developed as an IRM practitioner.