



STANDARD OPERATING PROCEDURE

Data Quality Task Force

Issued: XX/YY/ZZ

First Edition: This edition replaces all previous editions of the Standard Operating Procedure (SOP)

TITLE: Mosquito collections from experimental huts

INTRODUCTION:

The purpose of this SOP is to provide instructions on how to collect mosquitoes in experimental huts. Verandah-trap experimental huts provide the best mean of evaluating, under controlled field conditions, the efficacy of novel indoor intervention or combinations of intervention against free-flying, wild populations of malaria vectors.

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Equipment & Materials

- Mouth aspirators
- Storing bags (one bag per hut compartment)
- Haemolysis tubes for mosquito collection (catching)
- Torches
- Watches
- Cotton wool
- Sleeping mattress
- Bed sheets

Personnel

- Sleeper volunteers
- 1 Sleeper supervisor
- 1 Evaluation supervisor

1. Instructions

- 1.1. At 7:45 pm, arrival of sleeper volunteers at the experimental station.
- 1.2. Sleepers supervisor to check that each storing contains sufficient haemolysis tubes and cotton wool
- 1.3. At 8:00 pm, entering of sleepers in their respective huts.
 - 1.3.1. For each sleeper:
 - 1.3.1.1. Raise the separating curtain;
 - 1.3.1.2. Dispose the storing bags in their specific areas ;
 - 1.3.1.3. Install the mattress and bed sheet;
 - 1.3.1.4. Have the torch closer;
 - 1.3.1.5. Set up the watch alarm for 5:30 am.
 - 1.3.2. For the sleeper supervisor:
 - 1.3.2.1. Ensure that all the sleepers gained theirs huts;
 - 1.3.2.2. Open the window traps;
 - 1.3.2.3. Check that all the curtains are raise.

- 1.4. At 5:00 am, closure of window traps by the sleeper supervisor, beginning of capture.
 - 1.4.1. For each sleeper:
 - 1.4.1.1. Switch on the torch;
 - 1.4.1.2. Collect mosquitoes from inside the net first. Put each mosquito into a separate tube. Start at the floor so that you don't walk on mosquitoes lying on the ground. Check for live mosquitoes on the different parts of the net. Make sure that you have collected all mosquitoes. Leave the "net bag" inside the net while moving out of the net to avoid mixing of mosquitoes;
 - 1.4.1.3. Move out of the net by the curtain side;
 - 1.4.1.4. Set down the curtain gently;
 - 1.4.1.5. Collect mosquitoes from the hut. Always start at the floor. Check three times at least around the hut and then move to the verandah. Leave the "hut bag" in the hut;
 - 1.4.1.6. Move to the verandah by making a small passage beside the curtain. Avoid opening the curtain completely so that you don't allow free flying mosquitoes to fly back into the hut;
 - 1.4.1.7. Collect mosquitoes from the verandah. Always start at the floor. Check three times at least the verandah area.
 - 1.4.2. For the sleeper supervisor, ensure that all sleepers are up at the required capture starting time.
 - 1.4.3. For the evaluation supervisor, ensure that everything is done properly and that there are no complaints from the sleepers or sleep supervisor. Collect all the bags and take them to the lab as quickly as possible (within 2 hours of the finish of collections).