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Collection of Aedes mosquito using Malaysian Mosquito Autocidal Trap (MyMAT) in dengue endemic locality, Jalan Setia Taman Ayer Keroh Heights, Melaka.



Authors: Mohd Farihan MY, Mohd Amierul Fikri M, Faizul Akmal AR, Fadzillah J

- ¹ Center For Communicable Diseases Research, Institute For Public Health, Ministry of Health Malaysia
- ² Sabah State Health Department, Ministry of Health Malaysia

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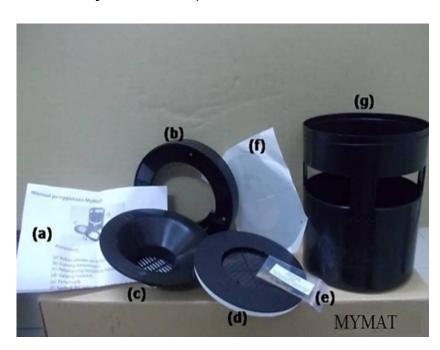
INTRODUCTION

The use of mosquito trap has been implemented in countries such as Australia,
Brazil and Puerto Rico for surveillance or supplementary dengue control
activity. Several type of mosquito traps used for this purpose are MosquiTrap, CDC
Autocidal Gravid Trap and sticky ovitrap



METHODOLOGY

- In this study, Malaysian Mosquito
 Autocidal Trap or MyMAT was used to
 measure monthly Aedes mosquito
 collection and identify the dominant
 Aedes species in Jalan Setia Taman
 Ayer Keroh Heights, Melaka.
- MyMAT components :



(a)User manual (b) lid (c) funnel (d) floater (e) Bti (optional) (f) sticky plastic (g) water container

- Aedes mosquito trapped on sticky plastic when performing oviposition inside MyMAT.
- A total of 435 MyMAT or three traps per house were set-up for 8 months duration from April 2016 to ovember 2016. Traps were collected on monthly basis and total mosquitoes trapped were calculated and identified using stereo microscope.



CONCLUSION

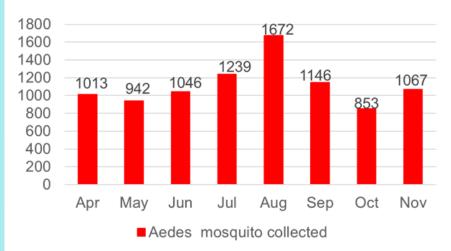
This large-scale mosquito trapping technique should be further explored to help in reducing mosquito population especially in dengue endemic localities.



RESULTS

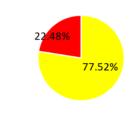
 Mean adult female Aedes mosquito collected per month was 1122.25 ± 88.86 with the highest collection observed in the month of August (1672 mosquitoes collected).

Total Aedes mosquito collected from April to November 2016

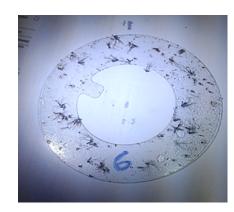


Both Ae. aegypti and Ae. albopictus were found in this locality with Ae. aegypti being the dominant species with a total of 6960 (77.52%) mosquitoes collected compared to Ae. albopictus, 2018 (22.48%).

Distribution of trapped Aedes mosquito by species using MyMAT







During the study period, four dengue cases were reported compared to 37 cases reported in the previous year, or a reduction of 89.19% cases were observed. However, further studies need to be performed to verify the reduction of dengue cases was due to the set-up the of mosquito trap or other contributing factors.