



Metropolitan mosquitoes: Understanding urban livestock keeping and vector-borne disease in growing tropical cities

January 2018 - December 2021

Objectives

- Describe the knowledge and practices among urban inhabitants on mosquito-borne disease transmission in Hanoi city
- 2. Evaluate the presence of mosquitoes and the Flaviviruses currently present in urban mosquitoes and its relationship to livestock keeping in Hanoi city
- 3. Identify the risk factors of dengue flavivirus by investigating febrile patients in a national hospital
- Piloting and evaluating an intervention for reduction of mosquitoes/vectors in urban households with and without livestock

Pls: Johanna Lindahl, Thang Nguyen, Long Pham

Partners: National Institute of Hygiene and Epidemiology, Nation Institute of Veterinary Research

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Highlight of 2020 achievements

- Study findings showed that non-livestock-keeping households had a better knowledge on MBDs than households keeping livestock. Livestock keeping was determined as increasing risks of MBDs due to the increase of mosquito population.
- Culex was the most dominant genus in the collected mosquito samples.
 Mosquitoes were presented mostly in peripheral districts, while less mosquitoes were found in central districts
- Age group and living district were the risk factors correlated with the dengue status. No association between livestock keeping and dengue infections were found