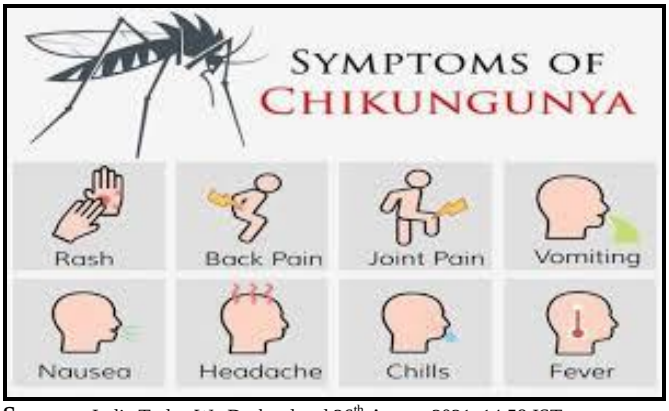
Editorial

Medical Entomology is an Important Discipline in the Medical field and its Research

Introduction

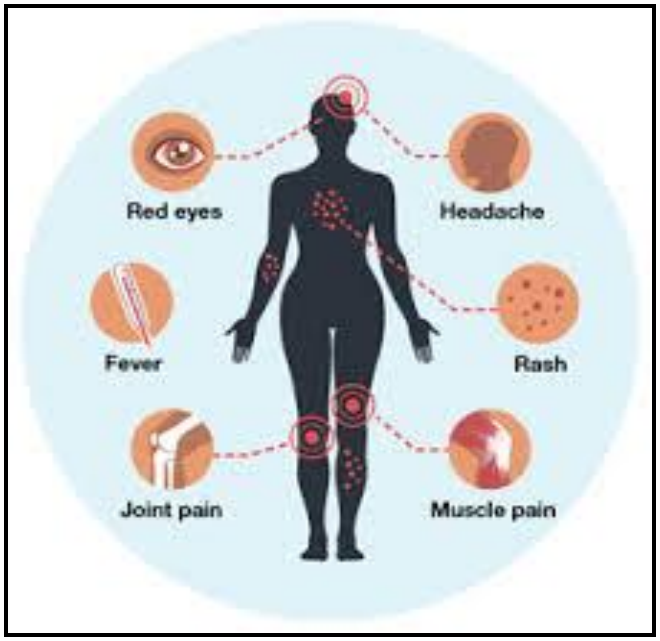
Medical Entomology (ME) is dealing about insects, ticks [1], arthropods [2], mosquito vectors [3], and mites, its affect/impact on human beings and related to various animals' health. It is most important subject to understand and prevent Vector-borne Infectious Diseases. ME research are as follows: (1). Finding and identify the Arthropods, (2). Using Arthropods as a tools, (3). Studying interactions, (4). Understanding of the role of climate change, and (5). To develop the strategies to interfere with disease transmission. ME is a reemerging filed of research to better understanding of Vector-borne Infectious Diseases. In the world level, the Chikungunya (its symptoms) and Zika virus outbreaks have became public attention to the possibility of the expansion of vector-ore infections diseases. So, ME is a important and essential part in the medical field.

Symptoms of Chikungunya



Source: India Today We Desk - dated 26th August 2021, 14:58 IST

Symptoms of Zika



Source: Florida International University - Dept. Of Emergency Management

Pathogenic Microorganism like virus, bacterium, parasite are actively transmit by vectors from one vertebrate to another when they sack the blood for their food. [4] Medical Entomology (ME) is focused related to insects, arthropods and its impact on human health. [5] It includes veterinary entomology and environmental sciences. The knowledge about vector biology, arthropod monitoring, and control of vector populations are important to preventing and surveying vector-borne infectious diseases. Hence, research, monitoring and evaluating in medical entomology are therefore essential in fighting arthropod-borne diseases. [6]

Article Summary: Submitted:15-October-2024 **Revised:**30-October-2024 **Accepted:**10-November-2024 **Published:**30-December-2024

Quick Response Code:

Web Site

http://ijmsnr.com/

DOI

10.55349/ijmsnr.20244412

This is an open access journal, and articles are distributed under the terms of the Creative Commons Attribution-Non-Commercial- ShareAlike 4.0 International License, which allows others to remix, tweak, and build upon the work non-commercially, as long as appropriate credit is given, and the new creations are licensed under the identical terms.

How to cite this article: Sureshbabu J. Medical Entomology is an important discipline in the medical field and its Research. Int J Med Sci and Nurs Res 2024;4(4):1–2.

ME discipline education is needed from school education. The only awareness will be increased gradually in the community and to control the spreading of mosquito ore related diseases. [6, 7] Initiate the number of research from the under and post graduate medical students. [8, 9] So many research were done by various researchers in various countries. [10 - 13] Everyone product themself from mosquito bite by some existing precautionary methods. Dengvaxia vaccine for the prevention of dengue disease caused by dengue virus. More number of Dengue related research is needed in worldwide. [14]

Conclusion

From this, I have concluded that medical entomology gave a brief knowledge about insects, ticks, arthropods, mosquito vectors, mites, and it effects in human health. Everyone product themselves by some existing precautionary methods. Already so many research done y may researchers in various parts of the world. ME discipline education is needed from school education.

References

1. Yssouf A, Flaudrops C, Drali R, Kernif T, Socolovschi C, Berenger JM, et al. Matrix-assisted laser desorption ionization-time of flight mass spectrometry for rapid identification of tick vectors. J Clin Microbiol 2013;51(2):522-8. **DOI:** 10.1128/JCM.02665-12. **PMID:** 23224087 **PMCID:** PMC3553915.

2. Giribet G, Edgecombe GD. Reevaluating the arthropod tree of life. Annu Rev Entomol 2012;57:167-186. **PMID:** 21910637

3. Yssouf A, Socolovschi C, Flaudrops C, Ndiath MO, Sougoufara S, Dehecq JS, et al. Matrix-assisted laser desorption ionization--time of flight mass spectrometry: an emerging tool for the rapid identification of mosquito vectors. PLoS One 2013;8(8):e72380. **DOI:** https://10.1371/journal.pone.0072380 **PMID:** 23977292 **PMCID:** PMC3744494.

4. CMathiso A, Pritt S. Laoratory idetificatio of arthropod ectoparasties. Cli Microiol Rev 2014;27:48-67. **PMID:** 24396136

5. Sureshbabu J. Present scenario on dengue disease in various states of India. Int J Med Sci and Nurs Res 2023;3(4):1–3. **DOI:** https://doi.org/10.55349/ijmsnr.20233413

6. Sureshau J, Vasudevan S, Raj P. A Study of the effectiveness of school health education programs o selected mosquito ore diseases: School based Cross-Sectional Study. Int J Res Med Sci 2017;5(6):2728-2733. **DOI:** http://dx.doi.org/10.18203/2320-6012.ijmsnr20172478

7. Sureshbabu J. A View o Medical Etomololgy ad its importace I the medical fields. Int J Med Sci and Nurs Res 2022;2(3):1–3. **DOI:** https://doi.org/10.55349/ijmsnr.20222312

8. Sureshbabu J. Medical Entomology teaching and research to medical students in a teaching medical institute in Pondicherry – A view and experience of a teaching faculty. Int J Med Sci and Nurs Res 2022;2(3):1–3. **DOI:** https://doi.org/10.55349/ijmsnr.20233112

9. Sureshbabu J. Medical Entomology: Education and Research in India. Int J Med Sci and Nurs Res 2023;3(2):1–3. **DOI:** https://doi.org/10.55349/ijmsnr.20233213

10. Bernardeschi C, Le Cleach L, Delaunay P, Chosidow O. Bed bug infestation. BMJ. 2013;346:f138. **DOI:** 10.1136/bmj.f138. Erratum in: BMJ 2013;346:F1044. **PMID:** 23341545

11. Musso D, Gubler DJ. Zika Virus. Clin Microbiol Rev 2016;29(3):487-524. **DOI:** 10.1128/CMR.00072-15. **PMID:** 27029595 **PMCID:** PMC4861986.

12. Lv J, Wu S, Zhang Y, Chen Y, Feng C, Yuan X, et al., Assessment of four DNA fragments (COI, 16S rDNA, ITS2, 12S rDNA) for species identification of the Ixodida (Acari: Ixodida). Parasit Vectors. 2014;7:93. **DOI:** 10.1186/1756-3305-7-93. **PMID:** 24589289 **PMCID:** PMC3945964.

13. Bichaud L, Dachraoui K, Piorkowski G, Chelbi I, Moureau G, Cherni S, De Lamballerie X, Sakhria S, Charrel RN, Zhioua E. Toscana virus isolated from sandflies, Tunisia. Emerg Infect Dis 2013;19(2):322-324. **DOI:** https://doi.org/10.3201/eid1902.121463 **PMID:** 23460990 **PMCID:** PMC3559066.

14. Sureshbabu J. Present scenario on dengue disease in various states of India. Int J Med Sci and Nurs Res 2023;3(4):1–3. **DOI:** https://doi.org/10.55349/ijmsnr.20233413

Jayanthi Sureshbabu

Editor-In-Chief,
International Journal of Medical Sciences and Nursing Research, Coimbatore, Tamil Nadu, India

& Formerly Lecturer in Medical Entomology,
Department of Community Medicine,
Pondicherry Institute of Medical and Sciences,
Kalapet, Pondicherry,
India.

Email ID: Editor-in-chief@ijmsnr.com
and editorinchief.ijmsnr@gmail.com

Publish your research articles with
International Journal of Medical Sciences and Nursing Research
Website: http://ijmsnr.com/ **eISSN:** 2583-0996