



Why We Need Medical Entomology in Medical Field in India?

Introduction

The field of Medical Entomology (ME) education is dealing with insects, mosquito vectors, mites, ticks, and its effect of cause, transmit of disease on human, human to animals and its control. It gives the deep knowledge on dengue fever and its effects. Every years, 17% of infectious diseases, causing 7 million deaths due to Vector-borne diseases (VBD). [1] ME is most important subject in Vector-Borne Infectious Diseases (VBID). Moreover, ME gives the effect and control of VBID. As per 2024 report of National Centre for Vector-Borne Diseases Control the dengue infection in India was 2, 33, 400 and 236 toll. ME is a main subject and it teaches in a no. of institutions in all over India. [2–4] ME discipline education is needed in school level. Medical Entomologist posts are mandatory in medical colleges. ME is an important subject in medical curriculum in India. [5–7] In this article, I discussed briefly about why we need ME and its importance, and where it is teaching in India, and the list of medical entomology institutions in India.

Need of Medical Entomology in India

Medical Entomologists were mentioned that there was a huge gap in demand and supply of Medical Entomologists in India. [8] ME is very much useful in finding, understanding and how to control VBDs. Teach it from school level. [9] Zika was transmitted by the species of mosquito as dengue and other in India. To educate public about fogging, and guiding people on personal protection we need a cadre of public health entomologists. [10] Research papers are many in that subject. Pathogenic Microorganism like virus, bacterium, parasite are actively transmitted by vectors from one vertebrate to another when they suck the blood for their food. ME is focused related to insects, arthropods and its impact on human health. ME is an essential subject medical students. All over India, Government of India has to take a prompt action to add medical entomology as a one of the major subjects in the medical curriculum because vector borne diseases, its area and impacts are very vast. Then only, the medical students must learn and trained


and to serve to both rural and urban communities. More no. of research are needed in medical education this specialty of entomology and its applications. This subject is mandatory in medical education curriculum. [11, 12] Medical entomology courses are available in various government and private institutions. [11] Trained the medical graduates I medical entomology techniques ad kee knowledge is essential I medical field.

Medical Colleges teaching Medical Entomology in India

Medical Entomology course is available in the following colleges in India [12]

Name of the Institutions	Website Link
Dr. K. N. Modi University	https://dknmu.org/pages/msc-entomology-college-in-rajasthan?p=InternationalStudent
Pondicherry University	https://www.pondiuni.edu.in/wp-content/uploads/2023/09/Syllabus-Affiliated-Medical-M.Sc.-Public-Health-Entomology-2023-24.pdf
IMTS Institute	https://dde.imtsinstitute.com/msc-entomology-distance-education/
Mohanlal Sukhadia University	https://mlsu.ac.in/upload/174_bro.p df
Indian Council of Medical Research (ICMR) Institution, Madurai	https://vrc.icmr.org.in/about-us/field-stations/madurai
Manipal Institute of Virology	https://www.manipal.edu/miv/program-list/short-term4.html
Indian Council of Medical Research (ICMR) – Vector Controal Research Centre, Pondicherry	https://vrc.icmr.org.in/images/pdf/M.Sc. PHE Prospectus 2022-2024.pdf

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Conclusion

From this article, I have concluded that medical entomology is one of the most important subject in medical curriculum. ME is needed all the developing and developed countries. Medical entomologists are needed more in number to control, to educate, and to guide the people on the existing personal protection methods. Medical Entomologists play an important role in finding vectors, identify their behaviour, and reduce the disease transmission by developing interventions. So, we need more number of public health entomologists. Indian Government to give importance to the subject ME and to increase the number of medical entomologists in India and to control VBD in all the states and union territories of India and to reduce the number of deaths annually. So, we need ME in the medical teaching field and in research.

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