

# A Review On API Neem (Azadirachta Indica) As A Herbal Mosquito Repellent

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**Abstract:** Mosquito-Delivered condition remain a major public health concern, with malaria, dengue, chikungunya, and Zika virus causing significant global challenges. Chemical repellents such as DEET, although effective, raise safety and environmental concerns. Neem (*Azadirachta indica*), a traditional medicinal plant widely used in Ayurveda, has gained increasing attention as a natural alternative. This review explores neem's mosquito-repellent properties, mechanisms of action, formulations, and comparative effectiveness with synthetic repellents. Current evidence suggests neem-based products demonstrate considerable repellent activity against multiple mosquito species, are environmentally safer, and can contribute to integrated vector management. However, more standardized formulations and clinical validations are needed before large-scale adoption.

**Keywords:** Neem, *Azadirachta indica*, mosquito repellent, herbal insecticide, vector control

