

[J Am Mosq Control Assoc.](#) 1993 Sep;9(3):359-60.

Mosquito repellent action of neem (*Azadirachta indica*) oil.

[Sharma VP](#), [Ansari MA](#), [Razdan RK](#).

Malaria Research Centre, Delhi, India.

Two percent neem oil mixed in coconut oil, when applied to the exposed body parts of human volunteers, provided complete protection for 12 h from the bites of all anopheline species. Application of neem oil is safe and can be used for protection from malaria in endemic countries.

[Southeast Asian J Trop Med Public Health.](#) 1995 Mar;26(1):180-2.

Field studies on the mosquito repellent action of neem oil.

[Sharma SK](#), [Dua VK](#), [Sharma VP](#).

Malaria Research Center (Field Station), BHEL Complex, Ranipur, Hardwar, India.

Repellent action of neem oil was evaluated against different mosquito species. 2% neem oil mixed in coconut oil provided 96-100% protection from anophelines, 85% from *Aedes*, 37.5% from *Armigeres* whereas it showed wide range of efficacy from 61-94% against *Culex* spp. Therefore, neem oil can be applied as a personal protection measure against mosquito bites.

[Indian J Malariol.](#) 1995 Sep;32(3):99-103.

Use of neem oil as a mosquito repellent in tribal villages of mandla district, madhya pradesh.

[Mishra AK](#), [Singh N](#), [Sharma VP](#).

Malaria Research Centre (Field Station), Medical College Building, Jabalpur, India.

A field study was carried out to evaluate the mosquito repellent action of neem (*Azadirachta indica*) oil in tribal forested villages of District Mandla. Various concentrations of neem oil mixed in coconut oil (1-4%) were applied to the exposed body parts of human volunteers. Results revealed 81-91% protection during 12 h period of observation from the bites of anopheline mosquitoes. Neem oil is an indigenous product and a practical solution to curtail mosquito nuisance.

[J Am Mosq Control Assoc.](#) 1996 Sep;12(3 Pt 1):406-8.

Repellency of *Lantana camara* (Verbenaceae) flowers against *Aedes* mosquitoes.

[Dua VK](#), [Gupta NC](#), [Pandey AC](#), [Sharma VP](#).

Malaria Research Centre, BHEL, Ranipur, Hardwar, India.

The repellent effect of *Lantana camara* flowers was evaluated against *Aedes* mosquitoes. *Lantana* flower extract in coconut oil provided 94.5% protection from *Aedes albopictus* and *Ae. aegypti*. The mean protection time was 1.9 h. One application of *Lantana* flower can provide more than 50% protection up to 4 h against the possible bites of *Aedes* mosquitoes. No adverse effects of the human volunteers were observed through 3 months after the application.