

Dr. BRR. GOVERNMENT COLLEGE, JADCHERLA, MAHABUBNAGAR (Dist.)

Student Study Project 2021 -22

DEPARTMENT OF CHEMISTRY

Topic

#### Use of Mosquito Repellents-Impact on Public Health

#### Conducted by students

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Specific PRINCIPAL



MAT



**CREAM** 



**BRACELET** 



**LOTION** 



**COIL** 



**CANDLES** 



**FABRIC ROLL** 



**VAPORIZER** 



**PATCH** 

# <u>USE OF MOSQUITO REPELLENTS - IMPACT ON PUBLIC HEALTH</u>





## **Introduction:**

To prevent mosquito bites and diseases transmitted through mosquitoes people followed safety measurements from the beginning.

In recent days as the population of mosquitoes increases, the intensity of the diseases transmitted also increased.

The people instead of following the traditional methods to avoid mosquito bite diseases, people are getting attracted to modern methods.

- ➤ The size of the mosquito is 51/2mm.
- ➤ Life time is 30 days.
- ➤ Flying speed of the mosquito is 1 to 1.5 m/hrs
- ➤ They fly 75 to 100 miles
- ≥ 2500 types of mosquitoes on the earth
- ➤ The wings of the mosquitoes vibrates 650 times per second
- ➤ So we hear zoom sound



# **Diseases caused due to Mosquito Bite:**



\*Malaria

Cerebral Malaria

Lymphatic filariasis

Chikun gunya

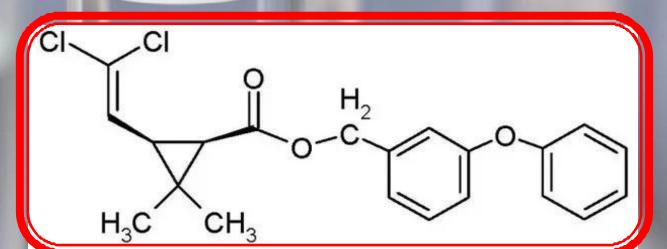
Dengue

Japanese encephalitis

\*Zika

## **Composition of Mosquito Repellents**

- > Pyrethrum
- > Pyrethrins
- > Allethrin
- ➤ Dibutyl hydroxyl toluene
- ➤ Piperonyl butoxide
- > N-(2-ethyl hexyl)-bicyclo-(2,2,1)hept-5-ene-2,3-dicarboximide
- > N,N-Diethyl-Meta-Toluamide.
- > some imported mosquito coils contain chemical, but their use is illegal in the United States, moreover in places like India S-2 is not banned.
- > Pyrethroid is an Organic Compound
- ➤ Mosquito Repellents are <u>Carcinogenics</u>





### **Impact: (Regular Usage)**

- •We the human beings, breathe in the air mixed with repellent chemicals for than 7 hours daily on regular basis.
- The smoke of one Coil is equal to 100 cigarettes.
- •On regular use of repellent or coils, humans will have all lungs related to disease like cold, cough, whizzing, asthma, Cancer etc.
- All these lung related diseases are the side effects of repellents and coils.

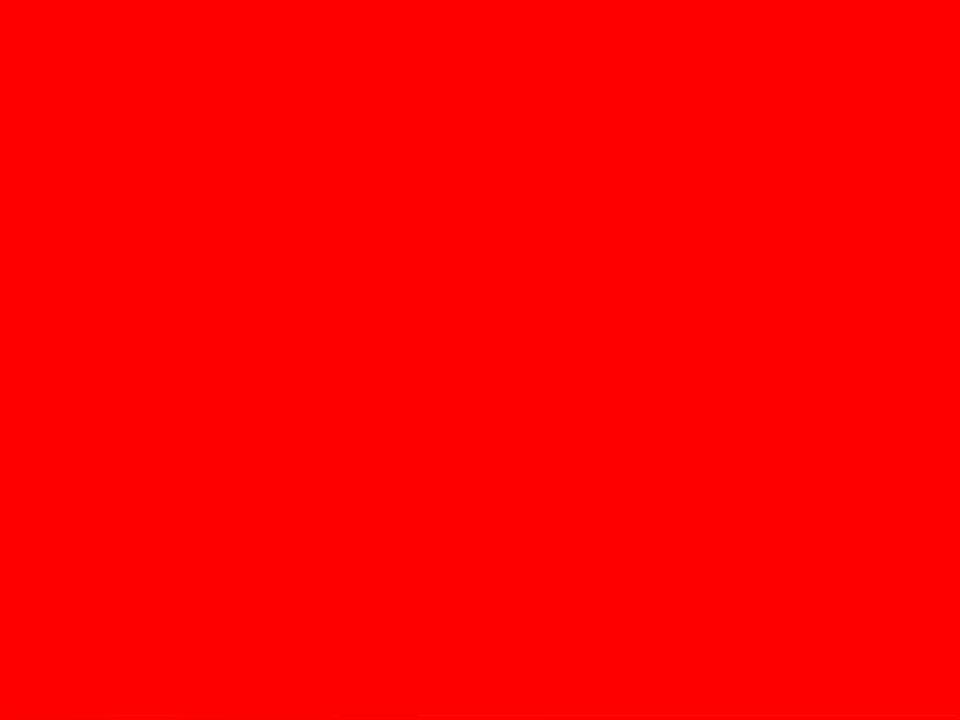


# Some safe and natural mosquito repellents that can be used are:

- Install mosquito meshes and use mosquito nets and bats.
- •Burning earthen lamps containing *neem* oil also benefits in keeping the mosquitoes at a day.
- Burning eucalyptus, lemongrass or citronella candles.
- Shift your *tulsi* plant near the window
- •Cut and sprinkle garlic on the outdoors living area, it is a very natural way to repel mosquitoes
- Observe basic of rules of hygiene, no stagnant water, no filth and keep mosquitoes away from you.

# **Conclusions:**

- •Only female mosquitoes can bite and squeeze the blood by injecting infectious saliva containing dangerous pathogens because they need a nutritional hit to develop eggs.
- •There are up to 400 chemical compounds present on human skin that could play a role in attracting mosquitoes.
- •Mosquitoes can sense carbon dioxide from quite a distance.
- Lactic acid is one of the key substances present in the sweat attracts mosquitoes.



Herbolent has come up with a total chemical free Mosquitorepellent which is guaranteed a herbal product.
Using Herbolent as an alternative to other chemical products works the same way as that of any other repellent and the advantage of it beingmade of only herbal essential oils.

- Cymbopogon citratus (Lemon Grass)
- Eucaiyptus globulus (Nilagiri )
- Azardirachta Indica (Neem)