

EFFECTS OF MOSQUITO REPELLENT PRODUCTS ON HUMAN

Abhishek Tiwari

INTRODUCTION:

The relation between malaria and the mosquito are not hidden from any one.

These are the arthropod which is surviving from the Jurassic period. From Jurassic period to till now various genetically and morphological changes have occurred in mosquito.

Many countries across the world running the malaria eradicating program, under the influence of WHO (world health organization), But the various products which we are using to kill or repel the mosquito may also prove dangerous for human health and on the other hand the mosquito is getting stronger by making various changes in them.

Before few decades many countries has started to use Dichloro biphenyl trichloro methane (DDT) , which was considered to be the potential weapon against malaria(mosquito) . But soon we come to know its hazardous effect over human being and for the environment. Mosquito again could deceive us by making them self-compatible to survive in the chemical containing scenario also.

Now a day lots of chemical product in the market are available to kill the mosquitoes but the question raises here are-

1. Is this product safe for human use?
2. Mosquito will be resistance to it or not on repeated exposure in near future.
3. By the present scenario will it be possible to eradicate malaria without causing any harm to human beings.

AIM AND OBJECTIVES:

The main objective of this research is to consider the human health, which may be in danger in eliminating the vector of malaria. Perhaps these chemical in the mosquito killing and repelling product acting as slow poison in human, and may prove dangerous in the coming future. The specific organ will be focused where this chemical are imparting more severe effect on the human. And in this way its long term effect on human will be analyzed.

HYPOTHESIS:

If soon these chemicals in the mosquito killing and repelling product won't be considered seriously then

again mosquito will develop such a strain, which will be resistance to these market product, and the mosquito will become stronger and human will become weaker due to side effect of these product and Malaria eradication will become more and more difficult.

MATERIAL AND METHOD:

The method will be survey based over the 100 people, where the patient will be asked about any mosquito killing or repelling product if they are using in their home. If they are using this product then they will be asked about any problems which they may be facing due to use of these products.

The expected problems may be:-

- i. Nausea
- ii. Headache
- iii. Skin irritation (if using mosquito repellent lotion)
- iv. Irritation in eye
- v. Breathing problems due to smoke of coil.
- vi. Sneezing (allergy)
- vii. Dizziness
- viii. Any other problem (if any)

After that the common problem due to these products among the people will be calculated considering its intensity and severity, and survey report will be generated. By this survey we can predict the hazards which human may face in the near future due to continuous exposure.

HOUSEHOLD MOSQUITO REPELLENT PRODUCT SIDE EFFECT SURVEY FORM

✓ MARK, IF YOU FACE ANY OF THE BELOW GIVEN PROBLEMS DUE TO MOSQUITO REPELLENT PRODUCT USED IN YOUR HOME.

PRODUCT USED:
1. Coil 2. Spray..... 3. Liquid vaporizer 4. Lotion

PROBLEMS	YES	NO
1. DIZZINESS		
2. NAUSEA		
3. VOMITING		
4. HEADACHE		
5. EYE IRRITATION		
6. BREATHING PROBLEM		
7. SKIN IRRITATION		
8. ANY ALLERGY (SNEEZING)		
9. OTHER (MENTION IT)		

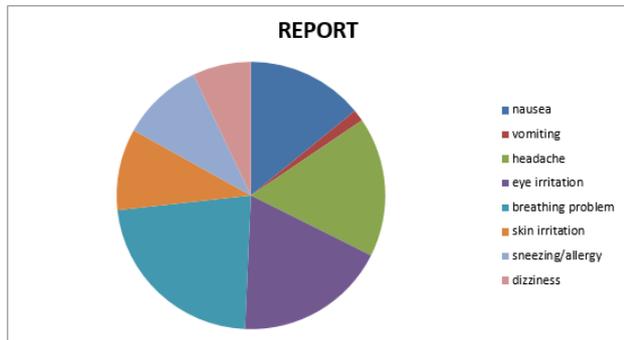
YOUR SIGNATURE BELOW INDICATES THAT ALL THE INFORMATION PROVIDED BY YOU IS TRUE.
AND YOU CERTIFY THAT YOU COMPLETELY UNDERSTAND AND COMPLY WITH THE ABOVE AS STATED.

NAME:
ADDRESS:
DATE OF BIRTH: TODAY'S DATE:
SIGNATURE:

Format of the survey form

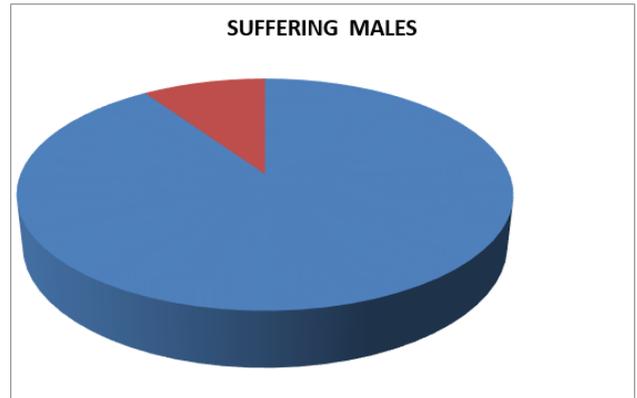
OBSERVATION AND RESULT:

The survey was performed over the 100 people above the age group of 15.



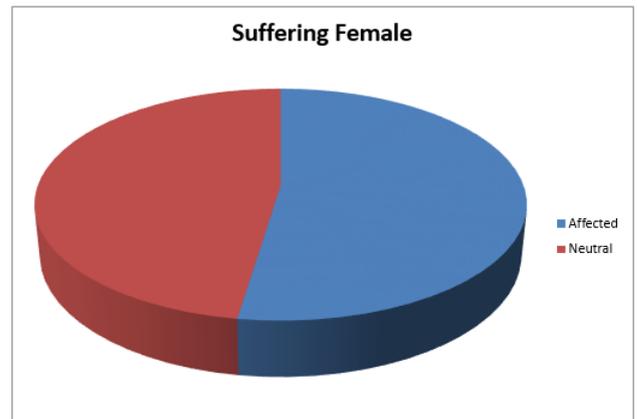
PROBLEMS	PERCENTAGE OF AFFECTED INDIVIDUALS
DIZZINESS	11.9%
NAUSEA	23.8%
VOMITING	2.38%
HEADACHE	28.57%
EYE IRRITATION	30.95%
BREATHING PROBLEM	38.09%
SKIN IRRITATION	16.66%
ANY ALLERGY(SNEEZING)	16.66%
OTHER (IF ANY)	NIL (0%)

The report of suffering male individual due to mosquito repellent product uses.



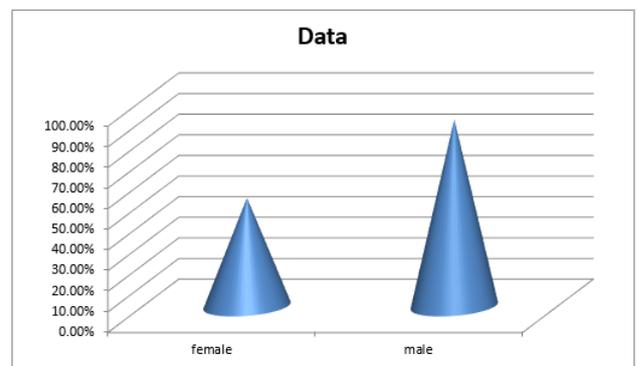
Male	Percentage
Affected	90.48%
Neutral	9.52%

The report of suffering female individuals due to mosquito repellent products uses.



FEMALE	PERCENTAGE
AFFECTED	52.39%
NEUTRAL	47.61%

The report of affected male and female with their comparison.



The results are more shocking. The household mosquito repellent products affecting more to the male individuals than the female individuals.

And among all the problems the major problem is the breathing related problem, whose percentage is 38.09%.

DISCUSSION:

If we focus over the present scenario, which is full of the chemical then certainly we come to know that, we are in the danger.

The product which we are using in our household, are like the slow poison and affecting us badly.

The most common problem is the breathing problems. If we see in our surrounding then certainly we will find the lots of asthmatic and allergic patient, whose number is increasing day by day. If soon a strict action won't be taken by the WHO (world health organization) and various bodies which are concerning with the malarias and its control then one day this slow poison will become the serious complication in our community.

CONCLUSION:

The household mosquito repellent products are affecting to the human health and acting as the slow poison in our community. In the near future this product may cause the

serious complication and will affect our sense organ badly.

SUMMARY:

The fight between mosquito (malaria) and human being is going on since many years to defeat each other. Both are trying well, mosquito as well as plasmodium to survive in the present scenario. Human took the help of chemical as a weapon to kill mosquito in various forms like coil, spray, liquid vaporizer, lotion etc. but this product somehow affecting to us. Actually these are acting as the slow poison and creating health related issue for human beings. Soon we required the alternative for this product, otherwise human will become physically weak with time, in destroying this creature.

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