"ASSESSMENT THE KNOWLEDGE & PRACTICES REGARDING DENGUE FEVER & ITS PRACTICES AMONG ADULTS RESIDING IN SELECTED RURAL AREAS IN THE PUNE DISTRICT."

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## **"ASSESSMENT THE KNOWLEDGE & PRACTICES REGARDING DENGUE FEVER & ITS PRACTICES AMONG ADULTS RESIDING IN SELECTED RURAL AREAS IN THE PUNE DISTRICT."**

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## ABSTRACT

Dengue is a mosquito-borne viral disease that has rapidly spread to all regions of WHO in recent years. Dengue virus is transmitted by female mosquitoes mainly of the species Aedes aegypti and, to a lesser extent, Ae. albopictus. These mosquitoes are also vectors of chikungunya, yellow fever and Zika viruses. Dengue is widespread throughout the tropics, with local variations in risk influenced by climate parameters as well as social and environmental factors. <sup>1</sup>The present study title: "Astudy to assess the knowledge & practices regarding dengue fever & its practices among adults residing in selected rural areas in the Pune district."The objective was to assess knowledge and practice regarding dengue fever and associate with demographic variables.Material and Methods: Researcher adopted non experimental descriptive research design. It was carried out on 200 samples. The Non-probability convenient sampling technique was used to data was collected using self-structured questionnaire Data analysis was done mainly using descriptive statistics. Result: Conclusion:Recommendation: Similar comparative study may be conducted using urban and rural population.

Keyword: Assess, knowledge, practice, Adults, Dengue fever

## INTRODUCTION

Dengue is a vector-borne viral disease caused by the flavivirus dengue virus (DENV). Approximately 400 million cases and 22 000 deaths occur due to dengue worldwide each year. It has been reported in more than 100 countries in tropical and subtropical regions.<sup>2</sup>

The incidence of dengue has grown dramatically around the world in recent decades. A vast majority of cases are asymptomatic or mild and self-managed, and hence the actual numbers of dengue cases are under-reported. Many cases are also misdiagnosed as other febrile illnesses.

The number of dengue cases reported to WHO increased over 8 fold over the last two decades, from 505,430 cases in 2000, to over 2.4 million in 2010, and 5.2 million in 2019. Reported deaths between the year 2000 and 2015 increased from 960 to 4032, affecting mostly younger age group. The total number of cases seemingly decreased during years 2020 and 2021, as well as for reported deaths. However, the data is not yet complete and COVID-19 pandemic might have also hampered case reporting in several countries.Before 1970, only 9 countries had

experienced severe dengue epidemics. The disease is now endemic in more than 100 countries in the WHO regions of Africa, the Americas, the Eastern Mediterranean, South-East Asia and the Western Pacific. The Americas, South-East Asia and Western Pacific regions are the most seriously affected, with Asia representing ~70% of the global burden of disease.In 2020, dengue affected several countries, with reports of increases in the numbers of cases in Bangladesh, Brazil, Cook Islands, Ecuador, India, Indonesia, Maldives, Mauritania, Mayotte (Fr), Nepal, Singapore, Sri Lanka, Sudan, Thailand, Timor-Leste and Yemen. Dengue continues to affect Brazil, India, Vietnam, the Philippines, Cook Islands, Colombia, Fiji, Kenya, Paraguay, Peru and, Reunion islands, in 2021<sup>1</sup>

## Need of the Study

The rapid increase in human population, lack of awareness among people, environmental changes, social changes and increased breeding of vector mosquitoes resulted in increased dengue transmission. Water storage drums, criterns, flower vases, cement tanks, plastic and metal drums, tyres, bottles, tin cans, coconut shells and other such discarded containers which can hold rainwater, overhead tanks, ground water storage tank, etc. are the source of breeding of aedes mosquitoes.<sup>3</sup>

The COVID-19 pandemic is placing immense pressure on health care and management systems worldwide. WHO has emphasized the importance of sustaining efforts to prevent, detect and treat vector-borne diseases during this pandemic such as dengue and other arboviral diseases, as case numbers increase in several countries and place urban populations at highest risk for both diseases. The combined impact of the COVID-19 and dengue epidemics could have devastating consequences on the populations at risk<sup>4</sup>

Dengue is considered an urban- and semi-urban disease, in recent years, due to water storage practices and large-scale development activities in rural areas, dengue has become endemic in rural areas of India as well, increasing the scale of the dengue challenge in the country so researcher wants to study on "assessment the knowledge & practices regarding dengue fever & its practices among adults residing in selected rural areas in the Pune district."

## Aim of the Study

Astudy to assess the knowledge & practices regarding dengue fever & its practices among adults.

## Methodology

Researcher adopted non experimental descriptive research design. It was carried out on 200 samples. The Non-probability convenient sampling technique was used to data was collected using self-structured questionnaire Data analysis was done mainly using descriptive statistics.

#### Result

## SECTION I: DESCRIPTION OF DEMOGRAPHIC PROFILE:

The majority of the adult age between 30-40 70% and majority of the individuals were 65% males than female 35%.majority of 42.5% people are uneducated.45% of adult are former,65%

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of adult are married ,45% are living in joint family ,62% are belongs to Hindu religions, 40% monthly income, below 5000.

# SECTION II: LEVEL OF KNOWLEDGE SCORE OF THE ADULTS REGARDING DENGUE FEVER & ITS PRACTICES

TABLE NO: 1

KNOWLEDGE	FREQUENCY	PRCENTAGE
Poor Knowledge	65	32.5%
Average Knowledge	90	45%
Good Knowledge	45	22.5 %
Mean	13.2	
SD	3.1	



Figure 1: level of knowledge score of the adults regarding dengue fever & its practices Above data showed level of knowledge score of the adult regarding dengue fever & its practices .in that majority of adult 90(45%) having average knowledge regarding dengue fever & its practices ,65(32.5%) having poor knowledge regarding dengue fever & its practices and 45(22.5%) having good knowledge regarding dengue fever & its practices. The mean knowledge score of the adult are regarding dengue fever & its practices  $13.2\pm3.1$ . "ASSESSMENT THE KNOWLEDGE & PRACTICES REGARDING DENGUE FEVER & ITS PRACTICES AMONG ADULTS RESIDING IN SELECTED RURAL AREAS IN THE PUNE DISTRICT."

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## SECTION III: LEVEL OF PRACTICE SCORE OF THE ADULTS REGARDING DENGUE FEVER & ITS PRACTICES

**TABLE NO 2** 

Practice score	FREQUENCY	PRCENTAGE
Always	55	27.5%
sometimes	100	50%
Never	45	22.5 %
Mean	12	
SD	3.1	

LEVEL OF PRACTICE SCORE 60.00% 50.00% 40.00% 27.50% 22.50% 20.00% 0.00% Always sometimes Never

#### Figure 2: level of practice score of the adults regarding dengue fever & its practices

Above data showed level of practice score of the adult regarding dengue fever & its practices .in that majority of adult 100(50%) follow practice sometime regarding dengue fever & its practices ,55(27.5%) follow always practice regarding dengue fever & its practices and 45(22.5%) follow never practice regarding dengue fever & its practices. The mean practice score of the adult are regarding dengue fever & its practices  $12\pm3.1$ .

## SECTION IV: A. ASSOCIATION OF LEVEL OF KNOWLEDGE SCORE WITH SELECTED PERSONAL DEMOGRAPHIC VARIABLES.

There was no significant association between age, educations, occupation, type of family with level of knowledge on dengue fever & its practices.

## **B. ASSOCIATION OF LEVEL OF PRACTICE SCORE WITH SELECTED PERSONAL DEMOGRAPHIC VARIABLES.**

There was no significant association between age, educations, occupation, type of family with level of practice on dengue fever & its practices.

## DISCUSSION

The findings of the study was discussed with the objectives and hypothesis stated. The present study was undertaken to assess the knowledge regarding acute respiratory infection in children among mothers in selected area of Pune city.

Present study findings are supported by study done in urban settlement area of south Delhi, 90% of the respondents were reportedly aware of dengue, 78% subjects knew dengue as a study done in Brazil[20] whereas in Thailand knowledge about dengue was 67%333. The possible explanation for the less awareness among the residents could be due to scarce health education messages widely available through mass media like television and newspapers which was found to be less only 32% found in the study.<sup>5</sup>

In present study majority of adult age between 30-40 70% and majority of the individuals were 65% males than female 35%.majority of 42.5% people are uneducated.45% of adult are former,65% of adult are married ,45% are living in joint family ,62% are belongs to Hindu religions, 40% monthly income, below 5000. Majority of adult 90(45%) having average knowledge regarding dengue fever & its practices ,65(32.5%) having poor knowledge regarding dengue fever & its practices and 45(22.5%) having good knowledge regarding dengue fever & its practices 13.2 $\pm$ 3.1. majority of adult 100(50%) follow practice sometime regarding dengue fever & its practices and 45(22.5%) follow never practice regarding dengue fever & its practices and 45(22.5%) follow never practice regarding dengue fever & its practices and 45(22.5%) follow never practice regarding dengue fever & its practices core of the adult are regarding dengue fever & its practices and 45(22.5%) follow never practice regarding dengue fever & its practices. The mean practice regarding dengue fever & its practices and 45(22.5%) follow never practice regarding dengue fever & its practices and 45(22.5%) follow never practice regarding dengue fever & its practices and 45(22.5%) follow never practice regarding dengue fever & its practices and 45(22.5%) follow never practice regarding dengue fever & its practices and 45(22.5%) follow never practice regarding dengue fever & its practices core of the adult are regarding dengue fever & its practices and 45(22.5%) follow never practice regarding dengue fever & its practices. The mean practice score of the adult are regarding dengue fever & its practices and 45(22.5%) follow never practice regarding dengue fever & its practices. The mean practice score of the adult are regarding dengue fever & its practices 12 $\pm$ 3.1.

## CONCLUSION

The current study showed that majority of the adult having average knowledge regarding the dengue fever & its practice and the for the practice they sometime followed the preventive major regarding dengue fever. There was no significant association between age, gender educations, occupation, type of family with level of knowledge and practice on dengue fever & its practices.

## Recommendation

Similar Study can be done in larger population and comparative in urban and rural.

## **Conflict of Interest**

The authors certify that they have no involvement in any organization or entity with any financial or non-financial interest in the subject matter or materials discussed in this paper.

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