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## A study to assess the knowledge regarding home care about dengue fever among adults residing in selected area of Pune city

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### Abstract

**Introduction:** Dengue is the most important mosquito-borne, human viral disease in many tropical and sub-tropical areas. In India the disease has been essentially described in the form of case series. We reviewed the epidemiology of dengue in India to improve understanding of its evolution in the last 50 years and support the development of effective local prevention and control measures. Early outbreak reports showed a classic epidemic pattern of transmission with sporadic outbreaks, with low to moderate numbers of cases, usually localized to urban centres and neighbouring regions, but occasionally spreading and causing larger epidemics. Trends in recent decades include: larger and more frequent outbreaks; geographic expansion of endemic transmission; spread of the disease from urban to peri-urban and rural areas; an increasing proportion of severe cases and deaths; and progression to hyperendemicity, particularly in large urban areas. The global picture of dengue in India is currently that of a largely endemic country. Understanding demographic differences in infection rates and severity of dengue has important implications for the planning and implementation of effective public health prevention and control measures and targeting of future vaccination campaigns.

**Purpose:** To assess the knowledge of adults regarding home care of dengue fever. To associate the findings with selected demographic variables.

**Methods:** This was a Non experimental exploratory research design and quantitative research approach. 100 adults were selected from urban areas of Pune City by non-probability technique. Self-structured questionnaire was used to assess knowledge.

**Results:** Mean score of knowledge regarding home care about dengue fever was 18.135 with 0.97858 standard deviation that show average knowledge and the 'p' value was more than level of significance 0.05 so there is association between age with knowledge. There is no any association between gender, education, occupation with knowledge.

**Conclusion:** Knowledge regarding home care of dengue fever was average.

**Keywords:** Dengue fever, adults residing

### 1. Introduction

A descriptive study was conducted to assess the knowledge, a, and practice survey and an extensive entomologic survey were conducted in two sub-districts of Kamphaeng Phet province, Thailand, to test the hypothesis that correct dengue knowledge and practice reduce dengue vector populations. A negative association was found between respondents' knowledge of preventive measures and the number of unprotected containers in and around their houses. Knowledge of development sites was positively associated with unprotected containers. No relationships existed between knowledge of dengue and adult mosquito reduction practices.

### 2. Methodology

Quantitative research approach with non-experimental research design was adopted the study was conducted on 100 adults in selected urban areas of Pune city by using non probability purposive sampling technique. The data was collected by using self-administered questionnaire and checklist. Content validity of the tool was established by suggestion of five experts. Tool was found reliable, which is calculated by test re-test method. (R=0.8)

**2.1 Ethical consideration:** formal administrative approval was obtained from Bharati Vidyapeeth college of nursing and obtained written inform consent from the participants.

**3. Findings**

**Section I:** Analysis of data related to demographic variables. Below table shows that in age group majority 34% were 35-40 years of age. In Gender majority 56% was female. In Family income majority 45% was 5000- 15000rs per month. In weight majority 35% was 50-59 Kg. In occupation

majority 36% doing job. In majority 82% had no previous history of myocardial infarction. In majority 74% had no family history of myocardial infarction. In majority dietary pattern 80% was vegetarian. In majority 43% adults had no habits. In majority 71% adults did exercise sometimes.

**Table 1:** Frequency and percentage distribution of the adults according to the demographic variables.

S. No	Demographic variables	frequency	Percentage%
1	<b>Age</b>		
	a) 19 to 24	29	29%
	b) 25 to 31	34	34%
	c) 32to 38	23	23%
	d) 39 to 45	14	14%
2	<b>Education</b>		
	a) Primary education	14	14%
	b) Secondary education	59	59%
	c) graduation	18	18%
	d) No formal education	09	09%
3	<b>Occupation</b>		
	a) Housewife	45	45%
	b) Working women	30	30%
	c) Laborer	25	25%
4	<b>Gender</b>		
	a) Female	58	58%
	b) Male	42	42%

**Section II A**

Analysis of the data related to the level of knowledge of early signs of myocardial infarction according to their score.

**Table 2:** Frequency percentage of knowledge score. n=100

S. No.	Knowledge score	Frequency	Percentage
1.	Good knowledge	49	49%
2.	Average knowledge	31	31%
3.	Poor knowledge	20	20%

Table No.2- The above table shows that out of samples, 10% of the people are showing the poor 00% knowledge about selected regarding home care about dengue fever knowledge, 51.66% are showing knowledge and 48.33%

people are showing excellent knowledge about selected regarding home care about dengue fever.

**Section II B**

**Table 3:** Mean and standard deviation of knowledge assessed.

S. No.	Mean	Standard deviation
1	18.135	0.97858

Table No.3- Mean is 18.28 and standard deviation is 0.97858.

**Section III**

**Table 4:** Association of the research findings with selected demographic variables.

Demographic data	Degree of Freedom	Table value	P- value
Age	4	11.9849	0.025
Gender	6	0.0752	0.99
Education	2	2.3461	0.9
Occupation	6	3.1144	0.9

Table No.4- The p value was more than level of significance 0.05 so there is association between age with knowledge. There is no any association between genders, education occupation with knowledge.

**4. Discussion of the research findings**

The findings of present study have been discussed with reference to the objective framed. A finding of the study shows that the purpose of the present study was to assess the knowledge regarding regarding home care of dengue among adults. The 100 sample were selected from selected area of A study to assess the knowledge regarding home care about dengue fever among adults residing in selected area of Pune city and other selected areas. Descriptive research design was used for the study. The content validity and reliability of the tool was done, which suggested that the tool was

reliable. The pilot study was conducted on 10 samples and the feasibility of the study was established. It was found that the tool had no major flaws and was used for the final study with the changes as per the experts and Guide.

Based on the objectives, the collected data was analyzed by using descriptive statistics.

In this majority of the samples i.e 49 % of samples having good knowledge regarding, home care about dengue fever 31% having average knowledge and 20% poor knowledge.

**5. Conclusion**

On the basis of findings of the present study, it can be concluded that adults are having good knowledge regarding home care of dengue fever knowledge by providing more information.

## 6. Recommendation

Keeping in view the finding of the present study the following recommendation made.

- A similar study can be replicated in different setting to strengthen the findings.
- The same study could be replicated on a large sample. This would provide invaluable evidence in the area of practice.
- A comparative study can be conducted of the pre and post test knowledge of the dengue after a teaching programme on prevention and control of dengue to adult
- A comparative study can be conducted on knowledge regarding dengue fever after a teaching programme on prevention and control of dengue fever to adults.
- The study can be done on association between various demographic variables, which were significant, on larger samples.
- A follow up study can be conducted to evaluate effectiveness of planned teaching programme on dengue fever among adults.

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