“A STUDY TO ASSESS THE KNOWLEDGE OF PRIMI PARA MOTHERS ON DIARRHEA AMONG NEONATES IN A SELECTED HOSPITALS OF FARIDKOT, PUNJAB”.

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ABSTRACT

Background: Diarrhea and neonatal age are two major factors responsible for pediatric mortality worldwide. The neonate has increased susceptibility to complications related to diarrhea due to immaturity of the systems that regulate fluid homeostasis and immunologic response. Early diagnosis and timely treatment are crucial because diarrhea in neonates may rapidly lead to life-threatening dehydration and malnutrition. Aim: To assess the knowledge of primi para mother on diarrhea among neonates in selected hospitals of Faridkot, Punjab. Material and Methods: Quantitative approach with one group post test only research design. Simple Random sampling technique was used for data collection and sample size was 50. Tools used for data collection were self structured knowledge questionnaire and sample characteristic. Data was analyzed by descriptive and inferential statistics by SPSS- 20. Results: The result of the study showed that distribution with maximum frequency of 32 and fewer frequencies on both sides. The mean score is found to be 32.36 and standard deviation is 6.56. Median of the mode is 32 which are slightly less than mean. Maximum possible score is 45, 29 (58%) subject’s score above mean and 21 (42%) subject’s score are below mean. Large majority of subjects could not reach the perfect score. This indicates that primipara Mothers of neonates not having adequate knowledge regarding diarrhea its prevention and management.

Key words – Knowledge, Primi-para mothers, Diarrhea, Neonates.
Introduction:

‘All Children, no matter where they are born, deserve a healthy start in life.’

Diarrhea is a common and ubiquitous problem in neonatal and young foals. Gastrointestinal problems are very common in babies. GIT disturbance are influenced by problems of liver and pancreas. Digestion, absorption and metabolism are the combined actions of gastrointestinal and hepato-pancreatic system. Functions of GI system are also related to combined actions of many functional systems.

Disturbances in any one, affects GI system leading to various problems. For example diarrheas develop due to increase overload of fluid from small intestine in to the colon following maldigestion and active secretions. Defect of intestinal mucosal immunity may lead to intestinal infections, that causes develop diarrheal incidence.

Diarrhea and neonatal age are two major factors responsible for pediatric mortality worldwide. The neonate has increased susceptibility to complications related to diarrhea due to immaturity of the systems that regulate fluid homeostasis and immunologic response. Early diagnosis and timely treatment are crucial because diarrhea in neonates may rapidly lead to life-threatening dehydration and malnutrition.

According to Neonatal Diarrhea at Maternity Hospital in Rangoon

Neonatal diarrhea was an important problem in American and Western European hospitals in the 1940s and 50s; in recent years it has become relatively rare. The reported episodes of diarrhea tended to occur in clusters and were often associated with particular serotypes of E.coli which became known as enteropathogenic E. coli (EPEC). In developing countries diarrhea is a major endemic public health problem with an estimated five million deaths annually.

Diarrhea is big problem globally. So, WHO supported “Diarrheal Diseases Control programme” was started by Govt. of India in 1980. At that time approximately 4.6 million children were dying each year of the dehydration caused by diarrhea. Because of the diarrheal disease control program about 3 million deaths/year are now prevented. An estimated 1.8 billion episodes of diarrhea occur each year and 3 million babies’ die due to diarrhea.

Diarrheal illness is important contributors to the pool of malnourished children in developing nations. About 24% of all deaths of all children living in developing countries are related to diarrhea and dehydration. In United States approximately 220,000 children younger than age of five years are hospitalized and approximate 400 children younger than five years die of dehydration and diarrhea each year because of Rotavirus in a common causative organism responsible for diarrhea. So Rotavirus vaccination was started in 1998 in United States but it failed as it causes intestinal obstruction and was withdrawn from October 1999.

To prevent death from dehydration oral rehydration therapy program started in 1986-87. It is being implemented in phased manner. Supplies of ORS packet to the state are being organized by centre
government. Twice a year 150 packets of ORS are provided as part of drug-kit supplied to all sub-centers in
country.

It was observe that mothers lack of knowledge on diarrhea hence to look after her neonates. Because
Mothers are important person who takes care of the newborn. The health and survival of baby depends upon
the health status of the Mother, awareness and education. Mother is the best primary health worker. In view of
her constant and continued contact with her baby, she is the best person to identify the early evidence illness
and minor development deviation from normal. If they lack of basic sanitary, no adequate water supply, lack
of knowledge about personal and domestic hygiene, lack of awareness and misconception among mothers
regarding dysentery and diarrhea that causes increased neonatal mortality morbidity rate.

**Statement of the Problem:**

A study to assess the knowledge of Primipara Mothers on Diarrhea among Neonates in a selected hospitals of
Faridkot, Punjab.

**Objectives:**

1) To assess the knowledge of Primipara Mothers on Diarrhea among Neonates
2) To find out the association between knowledge of mothers on Diarrhea and selected demographic variables.
   • Age
   • Socio-economic status
   • Occupational status of mothers
   • Educational status of mothers
   • Types of family

**Hypothesis:**

P value will be tested at the level of significance 0.05

H₁- There is a significant association between the level of knowledge scores with their selected demographic
variables.

**Material and methods:**

Quantitative approach with one group post test only research design. Simple Random sampling technique was
used for data collection and sample size was 50. Tools used for data collection were self structured knowledge
questionnaire and sample characteristics Performa. Data was analyzed by descriptive and inferential statistics
by SPSS- 20. The conceptual framework used for this study was based on Health promotion Model. The
content validity of the tool was obtained from the experts in nursing field. The reliability of the tool was
established by karl pearson’s formula which (0.8) was found reliable. Feasibility of the study was confirmed
by pilot study. The data was organised, analysed and interpreted in terms of the study objectives. The data was summarized and tabulated by using descriptive statistics (Mean, Percentage, Standard Deviation) and inferential Statistics (Chi–square).

**Research variables:** knowledge of Primi para Mothers on Diarrhea among Neonates.

**Results-**

Section 1: Assessment of knowledge of primipara mothers on Diarrhea among neonates:

Table No. 1 - Frequency distribution of Mothers by their selected variables:

<table>
<thead>
<tr>
<th>S. No</th>
<th>Variables</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Age</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>17-20 yrs</td>
<td>1</td>
<td>2%</td>
</tr>
<tr>
<td></td>
<td>21-25</td>
<td>41</td>
<td>82%</td>
</tr>
<tr>
<td></td>
<td>26-30</td>
<td>7</td>
<td>14%</td>
</tr>
<tr>
<td></td>
<td>31-34</td>
<td>1</td>
<td>2%</td>
</tr>
<tr>
<td>2</td>
<td>INCOME</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt; 3000</td>
<td>16</td>
<td>32%</td>
</tr>
<tr>
<td></td>
<td>3000 – 5000</td>
<td>10</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td>5000 – 10,000</td>
<td>10</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td>&gt; 10000</td>
<td>14</td>
<td>28%</td>
</tr>
<tr>
<td>3</td>
<td>OCCUPATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Housewife</td>
<td>41</td>
<td>82%</td>
</tr>
<tr>
<td></td>
<td>Working</td>
<td>9</td>
<td>18%</td>
</tr>
<tr>
<td>4</td>
<td>EDUCATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Primary/Middle</td>
<td>6</td>
<td>12%</td>
</tr>
<tr>
<td></td>
<td>Matriculation</td>
<td>16</td>
<td>32%</td>
</tr>
<tr>
<td></td>
<td>Sr. Secondary</td>
<td>10</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td>Graduate</td>
<td>10</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td>Postgraduate</td>
<td>8</td>
<td>16%</td>
</tr>
<tr>
<td>5</td>
<td>TYPE OF FAMILY</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nuclear</td>
<td>15</td>
<td>30%</td>
</tr>
<tr>
<td></td>
<td>Joint</td>
<td>30</td>
<td>60%</td>
</tr>
<tr>
<td></td>
<td>Extended</td>
<td>5</td>
<td>10%</td>
</tr>
</tbody>
</table>
Section 2: Knowledge Assessment of Primipara Mothers on Diarrhea Among neonates, its prevention and Management:

Table 2. Mean, Median, Mode of knowledge score of subject:

<table>
<thead>
<tr>
<th>Area</th>
<th>Maximum Possible score</th>
<th>Mean</th>
<th>Median</th>
<th>Mode</th>
<th>Standard Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>45</td>
<td>32.36</td>
<td>32</td>
<td>31.28</td>
<td>6.56</td>
</tr>
</tbody>
</table>

Data presented in table shows that distribution with maximum frequency of 32 and fewer frequencies on both sides. The mean score is found to be 32.36 and standard deviation is 6.56. Median of the mode is 32 which are slightly less than mean. Maximum possible score is 45. 29 (58%) subject’s score above mean and 21 (42%) subject’s score are below mean. Large majority of subjects could not reach the perfect score. This indicates that primipara Mothers of neonates not having adequate knowledge regarding diarrhea its prevention and management.

Section 3: Association between knowledge score with their selected demographic variables:

There was slight relationship between knowledge score and age of Mothers with chi-square value 3.401, P-.05, but statistically there was no relationship.

There was slight relationship between knowledge score and socio-economic status with chi-square value 3.1204,P-.05, but statistically there was no relationship

There was slight relationship between knowledge score and occupational status of mothers statistically.

There was slight relationship between knowledge score and educational status of mothers with chi-square value 6.92, P-.05, but statistically there was no relationship.

There was slight relationship between knowledge score and Type of Family status with chi-square value 0.3384, P-.05, but statistically there was no relationship.

Conclusion:

The study concludes that Overall more than 50% Mothers have demonstrated inadequate knowledge on diarrhea among neonates, its prevention and management.
References:


13) *Treatment guidelines on the management of the most important conditions presenting with diarrhea in children aged 1 week to 5 years*. Nightingale Nursing Times, 2006. 2 (7): p. 39-44 , 56.


