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The Knowledge, Attitude and Practices of Mothers of Hospitalized Children 6 Month To 5 Years of Age Towards Acute Diarrhoea and Oral Rehydration Therapy

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ABSTRACT

Diarrhoea is one of the commonest cause of morbidity among young children .Diarrhoeal infections are fifth leading cause of mortality worldwide.Global reports indicates that in 2008, despite the recommendations about the success of ORS, only 38% of children less than 5 year old received oral rehydration therapy (ORT) and continued food intake during diarrhoeal episodes.This study aimed to assess the knowledge ,attitude and practices of mothers of hospitalized children 6 month to 5 years of age towards acute diarrhoea and oral rehydration therapy

In this prospective study mothers of children aged 6 month to 5 years having acute diarrhoea admitted in pediatric ward of tertiary care J K Lone hospital Kota from november 2013 to october 2014 were included. After taking written and informed consent ,the mothers were interviewed and accordingly history and brief clinical examination was done.

The number of patients decreased with increasing education status of mother. There were 42.9%mothers (illiterate), below graduate were 56.88% and graduate mothers were 0.8%in this study. In our study only a meagre of 17.9% mothers knew how to prepare oral rehydration solution. In our study a total of 52% mothers washed hands before food. In our study 99 of 228 (43.4%) mothers knew that ongoing diarrhoea breeds malnutrition.

Promotional training about the ORS and nutrition and hygiene can prevent and manage diarrhoeal illness. **Keywords:** oral rehydration solution, diarrhoea, malnutrition.

Introduction

Diarrhoea is one of the commonest cause of morbidity among young children in developing countries as well as low income countries. Young children are most vulnerable especially under 5

year of age group. It is associated with lack of safe drinking water, inadequate sanitation and poor hygiene. Diarrhoeal infections are fifth leading cause of mortality worldwide ^(1,2)

JMSCR Vol||4||Issue||02||Page 9463-9466||February

Fluid therapy with ORS and other home solutions and continued breast feeding are the typical treatment. Since 1970s ORS has been the cornerstone of management in order to prevent life threatening dehydration associated with diarrhoea. Nevertheless, only less than 40% of children with diarrhoea in developing countries received the recommended treatment and there has been a progress towards the trend in the last decades (3,4)

Global reports indicates that in 2008, despite the recommendations about the success of ORS, only 38% of children less than 5 year old received oral rehydration therapy (ORT) and continued food intake during diarrhoeal episodes.

This study aimed to assess the knowledge ,attitude and practices of mothers of hospitalized children 6 month to 5 years of age towards acute diarrhoea and oral rehydration therapy.

Material and method

In this prospective study mothers of children aged 6 month to 5 years having acute diarrhoea and admitted in pediatric ward of tertiary care J K Lone hospital Kota, from november 2013 to october 2014 were included. Children having acute dysentry and having diarrhoea for more than 14 days were excluded. After taking written and informed consent from the guardian of children, the mothers were interviewed and accordingly history and brief clinical examination was done. By this knowledge ,attitude and practices of mothers towards acute diarrhoea and oral rehydration therapy was assessed.

Results

A total of 228 patients of age range 6 month to 60 months were enrolled in this study. Out of affected 228 patients, 117 (51.3%) were male and 111 (48.6%) were female.

There were 15 children in the severe dehydration. Out of 15 children, the mothers of only 3 (20%) received primary education; rest all were illiterate.

None of these mothers knew about danger signs of diarrhoea. Although 6 (40%) knew how to prepare ORS but none of the mothers gave ORS to the child before bringing to the doctor. Only 6 (40%) mothers knew correctly about the administration of ORS. Washing of hands before food was pracised by only 3 (20%). Only 6 (40%) mothers knew that diarrhoea could be prevented by hand washing and maintaining proper hygiene.

There were 102 children in some dehydration. Maternal literacy was seen in 44.1% of children suffering from some dehydration. Only 18 (17.6%) mothers were aware of general danger signs. Only 17 (16.6%) knew how to prepare ORS and purpose to give ORS to replenish fluid and electrolytes was known to 8 (7.8%). Out of 102 children with severe dehydration 39 mothers (38.2%) didn't give any ORT to their children. Washing of hands before food was practiced by only 64.7% mothers.

There were 111 children with no sign of dehydration. Maternal literacy was 36.93% in this group. Out of 111 ,only 18 (16.2%) knew how to prepare ORS and 30 (27%) knew about danger signs of dehydration .72.9 % mothers knew to administer ORS after each episode of diarrhoea. 33 mothers (29.8%) didn't give any ORT to their children. 78 (70.2%) knew about the alternatives to ORS. 66 mothers (59.4%) didn't wash hands before food in this group.

Ongoing diarrhoea breeds malnutrition. In our study 99 of 228 (43.4%) mothers knew this fact. 3 of 15 mothers in severe dehydration group,12 of 102 in some dehydration group and 84 of 111 in no dehydration group knew that malnutrition complicates diarrhoeal illness.

JMSCR Vol||4||Issue||02||Page 9463-9466||February

Table: Impact of various factors in children with severe, some and no dehydration

S.no.	Factors	Severe dehydration	Some dehydration	No dehydration
1.	No. Of children	15	102	111
2.	Maternal literacy	3	45	41
3.	Knowledge about ORS	6	17	18
4.	Hand washing	3	66	81
5.	Knowledge about malnutrition	3	12	84

Discussion

Knowledge and practices of mothers or other care takers of children are important determinants of the occurrence or outcome of diarrhoeal diseases. Base line information of these variables is also needed for developing health education programmes and for formulating national policy on home fluid therapy.

As regards maternal education and knowledge is concerned, the number of patients decreased with increasing education status of mother. There were 98 mothers (42.9%) illiterate, below graduate were 56.88% and graduate mothers were 2 (0.8%) in this study. The relationship between maternal education and state of health of the children is well documented⁽⁵⁾. In a survey by Ali M et al maternal literacy was found significantly associated with the knowledge regarding various aspects of ORT. Maternal literacy persistently affects mother's understanding of ORT and her ability to prepare ORS. Poor literacy status appears to limit the mother's ability to utilize ORS for preventing diarrhoea induced dehydration. (5) In our study only a meagre of 17.9% mothers (2.6% in severely dehydrated children, 7.4% in some dehydration group and 7.8% in no dehydration group) knew how to prepare oral rehydration solution. As it can be seen from the data that lack of knowledge leads to worsened child's dehydration.

In our study a total of 52% mothers washed hands before food. Washing of hands before food was practised by 20% mothers in severe dehydration group,64.7 % in some dehydration group while the figure was 73 % for mothers of children with

no dehydration. It clearly indicates the role of hand washing in prevention of diarrhoeal illness.

Conclusion

Continuous training in society to promote the use of more fluids, continuation of breast feeding, adequate and appropriate nutrition and taking care of children during episodes of diarrhoea are the main factors that bring children back to health. Promotion of hygiene behaviour is effective if it is done repeatedly over longer periods of time. It should be noted that maternal knowledge and performance is also influenced by the behaviour of doctors and health care staff in health centres. Therefore, training programmes are recommended to be held for medical students, practitioners and nursing staff to increase the knowledge and practices about the diarrhoea and use of ORS.

Conflicts of interest

There are no conflicts of interest.

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