Knowledge and Health Problems Related to Health Behavior among the Secondary School Children in Rural Community of Dhamrai Upazila, Dhaka

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ABSTRACT

In Bangladesh, there are 18,756 secondary schools in which 17.91 million students are enrolled. School children are more vulnerable to be attacked by various types of communicable diseases due to poor health behaviors. The aim of this study was to find out knowledge and health problems related to health behavior among the secondary school children. This descriptive cross sectional study was carried among 795 secondary school children by purposive sampling from 22nd to 24th January 2014 in different schools of Dhamrai Upazila, Dhaka. Data were collected on a pretested questionnaire by face to face interview. Data were analyzed manually and by using computer. The study revealed that majority of the respondents were Muslims by religion, 45% had education level Class VII and mean age was 13±1.7 years. Most of them 45% & 40% students father’s and Mothers education level respectively was HSC and above. About 50% students father’s occupation were service and 33% were businessman. Mostly about 79% students mother’s were housewife. Among all about 71% students were found having 2-3 brothers and sisters respectively. About 20%, 9% and 7% respondents don’t agree on drinking clean boiled water, avoidance of smoking and care of nails as a healthy behavior. 25%, 13% and 11% respondents don’t practice drinking clean boiled, regular brushing of teeth and care of nails. About 95%, 74% and 67% learned on health behavior from family teachers and text books respectively. About 19%, 14% and 10% students were suffering from common cold, unhealthy hair and itching respectively. Knowledge regarding health behavior among the secondary school children was found still worse. The study recommends more effective implantation of awareness program to improve knowledge regarding health behavior.

Key Words: Knowledge, Practice, Behavior, Secondary school, Students, Personal hygiene

Introduction

Personal hygiene is the science of healthy-living of an individual. The term personal hygiene includes all those personal factors, which influence the health and wellbeing of an individual. It comprises a broad range of day to day activities such as bathing, clothing, washing hands and toilet; care of nails, feet and teeth; spitting, coughing, sneezing, personal appearance and inculcation of clean habits. Training in personal hygiene should begin at a very early age and must be carried through school age. Snow reported that children with proper hand washing practices are less likely to report gastrointestinal and respiratory symptoms. In addition, hand washing with soap has been reported to reduce diarrheal morbidity by 44% and respiratory infections by 23%. There-fore, it is clearly evident that the aim of personal hygiene is not only to promote the standards of personal cleanliness within the setting of the condition where people live, but also to reduce the prevalence and incidence of communicable diseases.

AKMMC J 2014; 5(2): 18-22
Methodology
This was a descriptive cross sectional study carried out in Dhamrai Upazila, Dhaka under Dhamrai union in Taltola, Choibaria, Kumrail, Islampur, Chandrail, Ambagan, Palara and Sadamath villages during the period 22nd to 24th January, 2014 for data collection. Secondary school children of class VI to class VIII during data collection period were the study population. Total size of the sample was 795 and purposive in nature. Duly pre-tested structured questionnaire and check list were the instruments for data collection. It was collected through face to face interview by 4th year MBBS students (AKMMC -03) of Anwer Khan Modern Medical College, Dhanmondi, Dhaka with prior filling up a consent form and signed by the respondent as a part of ethical consideration. It was processed and analyzed manually and by using computer.

Results

Table-I: Distribution of respondents by age & sex n = 795

<table>
<thead>
<tr>
<th>Age in years</th>
<th>Number of respondents</th>
<th>Sex</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-12</td>
<td>276 (35)</td>
<td>Male 323 (41)</td>
</tr>
<tr>
<td>13-15</td>
<td>468 (59)</td>
<td>Female 472 (59)</td>
</tr>
<tr>
<td>16-18</td>
<td>51 (6)</td>
<td>Total 795 (100)</td>
</tr>
<tr>
<td>Total</td>
<td>795 (100)</td>
<td></td>
</tr>
</tbody>
</table>

About 59% respondents were found within age of 13-15 years. Mean age : 13years SD : 1.7 with male 41% and female 59%.

(N.B: Figures in the parenthesis indicate percentage)

In Bangladesh, there are 18,756 secondary schools in which 17.191 million students are enrolled. School as socializing institution for children and adolescents play a vital role in the development of healthy citizen. School health education program can play a vital role in changing health behavior of the people. Health management can easily be spread into the family, community through the school students.

The present study was aimed to find out knowledge and health problems related to health behavior among the secondary school children and being intended to support a change of the role of the community from passive recipient to active participation in health development process by identifying their own problems.
Figure 03 shows that 46% & 25% students were found having 2 & 3 brothers and sisters respectively.

Table II: Distribution of respondents by father’s and mother’s level of education \( n = 795 \)

<table>
<thead>
<tr>
<th>Level of Education</th>
<th>Father’s Number of Respondents</th>
<th>Percentage</th>
<th>Mother’s Number of Respondents</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illiterate</td>
<td>57</td>
<td>7</td>
<td>96</td>
<td>12</td>
</tr>
<tr>
<td>Primary</td>
<td>202</td>
<td>13</td>
<td>206</td>
<td>26</td>
</tr>
<tr>
<td>Secondary</td>
<td>302</td>
<td>38</td>
<td>315</td>
<td>40</td>
</tr>
<tr>
<td>HSC &amp; above</td>
<td>334</td>
<td>42</td>
<td>178</td>
<td>22</td>
</tr>
<tr>
<td>Total</td>
<td>795</td>
<td>100</td>
<td>795</td>
<td>100</td>
</tr>
</tbody>
</table>

HSC and above level of education was found in 42% & 22% student’s father and mother.

Table III: Distribution of respondents by father’s and mother’s level of education \( n = 795 \)

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Father’s Number of Respondents</th>
<th>Percentage</th>
<th>Mother’s Number of Respondents</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service</td>
<td>400</td>
<td>50</td>
<td>129</td>
<td>16</td>
</tr>
<tr>
<td>Business</td>
<td>260</td>
<td>33</td>
<td>03</td>
<td>3</td>
</tr>
<tr>
<td>Agriculture</td>
<td>25</td>
<td>3</td>
<td>00</td>
<td>0</td>
</tr>
<tr>
<td>Day laborers</td>
<td>47</td>
<td>6</td>
<td>24</td>
<td>3</td>
</tr>
<tr>
<td>Housewife</td>
<td>627</td>
<td>79</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td>63</td>
<td>8</td>
<td>12</td>
<td>1.5</td>
</tr>
<tr>
<td>Total</td>
<td>795</td>
<td>100</td>
<td>795</td>
<td>100</td>
</tr>
</tbody>
</table>

About 50% students father’s occupation were service and 33% were businessman. Mostly about 79% students mother’s were housewife.

Figure 03: Component Bar diagram showing distribution of respondents by knowledge on health behavior
(NB: A: Regular bathing, D: Use of sanitary latrine or toilet G: Drinking clean & boiled water B: wearing clean clothes; E: Regular brushing of teeth H: Regular sleeping in time C: Regular washing of hands & feet; F: Care of nails, I: Avoidance of smoking, J: Wearing of shoes or sandal on foot.)

Figure 04: Component Bar diagram showing distribution of respondents by practice of health behavior
(NB: A: Regular bathing, D: Use of sanitary latrine or toilet G: Drinking clean & boiled water B: wearing clean clothes; E: Regular brushing of teeth H: Regular sleeping in time C: Regular washing of hands & feet; F: Care of nails, I: Smoking, J: Wearing of shoes or sandal on foot.)

Figure 04 shows that 25%, 13% & 11% respondents don’t practice drinking clean-boiled water, regular brushing of teeth & care of nails.
Rotary school and provati school in Khalispur at Khulna. This may be due to increased awareness among people about personal hygiene and government initiatives through print and electronic media.

This study also showed more students 97.7% were found to take bath daily compared to the earlier work of Rahman who performed a study regarding the practice of personal hygiene among school going and non-school going students in Voberchar Owagir Ali High School of Munshigonj district in 2001 and found 85.8% took bath daily. As stated earlier, this increased tendency of students to take bath in recent years could be related with the increased awareness among the parents about personal hygiene.

About 95%, 74% & 67% students learned on healthy behavior from family, teacher & text books respectively. Regarding health problems related to poor health behavior only 19%, 14% & 10% respondents were suffering from common cold, unhealthy hair and itching respectively. This finding varies with the findings of the survey of BDHS which estimated 70% rural students suffered from scabies, malnutrition, ear discharge, dental caries. This discrepancy may be justified with the logic that this survey was carried out with a small sample size in a semi-urban while BDHS conducted country wide survey among large group of people.

Conclusion
Health of school children is very important issue in Bangladesh as well as in the world. The study concludes that an increase in the trend of knowledge and practice about health behavior was observed among the secondary school children with some exceptions.

Recommendations
Considering the findings of the present study, there are following recommendations:

- Attention needed on safe drinking water, avoiding smoking, care of nails and tooth brushing.
- Family and school teachers need motivation towards improved health practice.
Family members and teachers can act as role models towards positive health habits.

An in-depth large scale study on health habits and problems is needed to improve school health program in future.

Acknowledgement

It is our pleasure to acknowledge Principal & Vice-principal of Anwer Khan Modern Medical College to support in conducting this study. We also gratefully acknowledge Director of NIPSOM & his support staff at Dhamrai THC in providing accommodation & guidance during our stay at their premises. We are thankful for the support staff of Dhamrai THC as well. Thanks to our AKMMC-03 batch, students for their hard work from the very beginning in conducting and implementing this study protocol and their active participation for data collection in particular. Last but not least the people of the study area are gratefully acknowledged as key informants.

References