State of Working Slum Children in Dhaka City

Md. Nurul Amin¹, Shayela Farah², Mohoshina Karim³, Farhana Rahman⁴, Shitil Ibna Islam⁵

ABSTRACT

Background & objective: Rapid urbanisation in the 20th century has been accompanied by the development of slums. Nearly one-third of the world’s population and > 60% of urban populations in the least developed countries including hundreds of millions of children live in slums. Slums are areas of broad social and health disadvantage to children and their families due to extreme poverty, overcrowding, poor water quality and sanitation, substandard housing, limited access to basic health and education services. The objective of this study was to assess the demographic and nutritional status of working slum children in Dhaka city.

Methods: This descriptive cross sectional study was conducted at Moghbazar slum, situated in Dhaka city from July to December, 2013. A total of 200 slum children aged 6 to 18 years whose parents’ (either father or mother) voluntarily consented to allow their children participate in the study.

Result: Out of 200 slum children, 57(28.5%) were in the age group of 12-14 years, among them 110(55.0%) were male. More than 50% never attended any kinds of formal school. Forty five percent children lived with their parents. Over half (26%) of the slum children were engaged in beggary, 23% were van/rickshaw puller, 22% were rag-picker (Tokai), 10% were cooli. Three-quarters of the children had medium work-load and 80% did 5-8 hours work per day sixty percent of the children had monthly income of Taka 1000-1500. In terms of BMI, one-third (33.5%) was severely under-nourished, 55% were of normal BMI and 11.5% were overweight and obese.

Conclusion: The study presented a gloomy picture (in terms of nutritional status) of working children in a selected slum within Dhaka city. Therefore, health related programmes should focus to improve the overall wellbeing of the working slum children.

Key words: Nutritional status, working slum children, occupation.

INTRODUCTION:

Children constitute a large segment of the world’s population and, therefore, form a significant component of all human societies.¹ There is a general tendency in society to view slum children as criminals, victims, or as sub-human figures but a significant portion of disadvantaged children live in the slums on account of acute impoverishment which is caused by social deprivation.² Many children find works, like collecting the waste papers, cleaning cars or working as shoe shiners. Some engage in begging, pick-pocketing or sex pervert while others end up as drug addicts, who use cheap and easy accessed inhalants which cause irreversible brain damage. Furthermore, they have less access to basic amenities, such as,
health, education or food.\textsuperscript{3} Bangladesh is a country of South Asia with 1, 47,570 sq. km of geographical area and 146.6 million people making it world’s seventh most densely populated country.\textsuperscript{4}

Dhaka is the capital city of Bangladesh and one of the most densely-populated & rapidly expanding mega-cities in the world. Unfortunately, the expansion and growth are not well planned. It is estimated that every year 300,000 to 400,000 new migrants come to city from different parts of the country. As a result, every ten years the population of Dhaka is doubling. Many slum dwellers are illiterate, live in unhygienic conditions, eat unhealthy food and drink unsafe water. These conditions create many health problems. Overcrowding & unsanitary conditions facilitate the transmission of disease-including pneumonia and diarrhoea, the two leading killers of children (younger than 5 years) worldwide. Outbreaks of measles, tuberculosis and other vaccine preventable diseases are also more frequent in these areas, where population density is high and immunization levels are low.\textsuperscript{5}

It has been recognized that infants, children and women of the reproductive age constitute the most vulnerable group from the stand point of nutrition. Malnutrition is the outcome of many complex biological and social processes. The roots of malnutrition run deep into its social soil and it is a cause of concern.\textsuperscript{4} Since children have the rights to survival, adequate health care and a standard of living that supports their full development. Research on urban slum dwellers, specially, on nutrition is very relevant and deserve in-depth studies. This could help explain many of the interrelated variables which come into play in explaining the prevailing situation amongst the urban slum dwellers. The purpose of the study was to assess the demographic and nutritional situation of working slum children in slum environment in Dhaka city.

**METHODS:**

This descriptive cross-sectional study was conducted at Moghbazar slum situated near the Dhaka Community Medical College Hospital. The study duration was six months from July to December, 2013 to assess the situation of working slum children in Dhaka city. A house-to-house survey was conducted and a total of 200 working children aged 6 to 18 years were enrolled using purpuse sampling technique. Consent regarding their participation in the study was, however, taken from their parents. The children were interviewed and information regarding the age, education, occupation, monthly family income, working conditions and nutritional status of their children were collected both from the parents and children. Height was measured without shoes to the nearest centimeter using a ruler attached to the wall, while weight was measured to the nearest 0.1 kg on a manually-adjusted scale with the subject wearing school ordinary dress and no shoes. Then data were collected from the respondents by face-to-face interview using a semi-structured questionnaire (Research Instrument or Tool). Using weight and height data, body mass index (BMI) was calculated with the help of formula BMI = (weight in kg)/ (height in sq-meter).
As BMI of children and adolescents is age- and sex-specific, calculated BMI were plotted on Growth-chart [developed and recommended by Centre Disease Control (CDC), Atlanta] to find the percentile. Then the nutritional status of the individual respondents was determined as follows:

**Table I. Nutritional status based on BMI-for-age percentiles (Adapted from CDC, Atlanta)**

<table>
<thead>
<tr>
<th>Nutritional status</th>
<th>Percentile range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Underweight</td>
<td>&lt; 5th Percentile</td>
</tr>
<tr>
<td>Normal</td>
<td>5th to &lt; 85th Percentile</td>
</tr>
<tr>
<td>Overweight</td>
<td>85th to &lt; 95th Percentile</td>
</tr>
<tr>
<td>Obese</td>
<td>≥ 95th Percentile</td>
</tr>
</tbody>
</table>

Data were processed and analysed using SPSS, version 23. All analyzed data were presented in the form of frequency and percentages.

**RESULTS:**

Out of 200 slum children, 57 (28.5%) were in the age range 12-14 years, 45 (22.5%) in 6-8 years and 42 (21.0%) were in 15-17 years. Among them 110 (55.0%) were male and the rest female. More than 50% children never attended in school, 30% had incomplete primary level education and 16.5% completed primary level. Forty-five percent children lived with their parents, 27% lived with their mothers only and 22% lived alone. Majority (83%) had 3-5 family members (Table II).

The children were found to be engaged in a wide range of activities, which included among others Tokai (rag-picker) (22%), van/rickshaw puller (23%), beggar (26%), Cooli (10%) at the railway station or ‘launch ghat’ etc. Seventy-five percent of the children had medium work-load and 80% did 5-8 hours work per day. Sixty percent had monthly income of Taka 1000-1500, 30% Taka < 1000 and 10% Taka > 1500 (Table III). In terms of nutritional status (BMI), one-third (33.5%) was severely undernourished, 55% were of normal nutritional status, 9% were overweight and 2.5% obese (Fig 2).
DISCUSSION:
Growth of urban population is always accompanied by the growth of slums, which poses threat to the health of urban population, particularly, the health of the children.7 In the present study out of 200 slum children, 57(28.5%) were in the age range of 12-14 years, 45(22.5%) in the range of 6-8 years and 42(21.0%) were in 15-17 years which bears consistency with the findings of Ahmad8 (31% were 8-10 years, 34% 11-13 years and 35% 14-18 years of age).

The present study demonstrated that over half (51%) of the children never attended in any kinds of formal education & 15(33.0%) had incomplete primary education. Khatun & associates2 conducted a study in Khulna city where one-fourth (25%) of the children were illiterate, 57% completed up to Grade-III and only 3% completed up to Grade-VIII. Forty five percent children lived with their parents, 27% with mothers only and 22% alone. These findings are consistent with the findings of “The Chetona Bikash Kendra (CBK)” where 45% live with their parents, 18% maintained contact with parents and 24% had no contact with parents.8 Majority of children lived with 3-5 family members with average family member being 5.9 Conception goes that population explosion rate is high in slum. But the study found that they prefer to have small-family like other non-city slum dwellers for better living.

UNICEF estimates that around 16% of children aged 5-14 years in developing countries are involved in child labour.10 ILO estimates that around 215 million children under 18 work around the world; many of them being full-time. In Sub-Saharan Africa 1 in 4 children aged 5-17 works, compared to 1 in 8 in Asia-Pacific and 1 in 10 in Latin America are engaged in child-labour.11 Even though the prevalence of child labour is falling in recent years everywhere, apart from Sub-Saharan Africa,12 it continues to harm the physical and mental development of children and adolescents and interfere with their education.10

The slum children were found engaged in a variety of activities, which mong others include rag-picking, van/rickshaw pulling, beggary, assisting passengers in carrying their luggage in “railway station” or “launch-ghat” (cooli) etc. Working children are involved in many different types of work, often for little or no pay. Some children work within their own homes, engaged in domestic chores and small family businesses. Others work outside their homes, in small shops, factories, restaurants, tanneries, waste-dumps and on the streets. Most working children are employed for an average 8 to 12 hours a day. Many children involve working in hazardous conditions that endanger their physical or mental health and moral development through unsafe environments, dangerous duties or overly- long working hours.13

Three-quarters (75%) had medium work-load and 80% of them did 5-8 hours work per day and most of their income was 1000-1500 Tk per month which is in line with the results of Khatun et al2. Malnutrition makes a central contribution (up to 56%) to child mortality worldwide and is a recognised problem in informal settlements.14 In the present study, (33.5%) children were severely under-nourished, 55% were normal and 11.5% overweight or obese. Compared with their urban counterparts, children in slums are more likely to be undernourished and stunted 15,16 which might be due to prolonged or recurrent episodes of hunger or specific nutritional deficiencies (e.g., caloric, protein, micronutrient), and also might be due to persistent or recurrent ill-health.17
In countries where a large proportion of the urban landscape is covered with slums, the rates of malnutrition and mortality amongst children are high, particularly in sub-Saharan Africa and South Asia. This is clearly linked to inequalities in access to shelter, health care, employment & education. In most of the developing countries, 2 out of 5 slum children are malnourished, a ratio that is twenty times higher than that of developed countries.18

CONCLUSION:

The findings of this cross-sectional study presented a gloomy picture (in terms of demographic and nutritional status) of working children in a selected slum in Dhaka city. A large-scale study addressing the variables of interest is desirable for gaining further insight.

REFERENCES:


