Original Research Article

A study of pattern of some common infections in children one month to five years of age

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ABSTRACT

Background: Understanding the causes of child mortality provides important public health insights. Globally 6.9 million deaths in children under-5 occurred in 2011. The objective of the present study was to study the pattern of some common infections in children one month to five years of age.

Methods: Observational descriptive study was conducted at Department of Paediatric from July 2012 to June 2013 among 368 randomly selected children. Standard diagnostic criteria for Respiratory tract infection, Diarrhea, Tuberculosis, Urinary tract infection, Malaria, Enteric fever, Measles, Pyoderma, Parasitic infections was followed for all children.

Results: Respiratory tract infection and Diarrhea occurred most frequently in 7 to 24 month of child that was 82 (51.9%) and 53 (58.2%), respectively. Stool examination in Parasitic infestation showed that Amoeba 1 (7.1%), Giardia 1 (7.1%), Ascarisiasis 6 (42%), and Hookworms were 6 (42%) in total of 14 cases. Anemia was present in URI, Tuberculosis, Malaria, and Parasitic infestation with mean hemoglobin (Hb) ranges from 8.6 to 9.2. Mantoux showed that 20 (87%) cases had mantoux > 10 mm. Malarial species found were Vivax (16, 66.7%). Respiratory tract infection occurred mostly in winter season.

Conclusions: Most common infections in children 1 month to 5 years of age was Respiratory tract infection followed by diarrhea, enteric fever, malaria, tuberculosis, urinary tract infection, parasitic infection, measles and pyoderma.

Keywords: Children, Infections, Pattern

INTRODUCTION

Understanding the causes of child mortality provides important public health insights. Globally 6.9 million deaths in children under-5 occurred in 2011.

Almost two-thirds (64%) were caused by infectious diseases. Worldwide, the leading causes of death among children under-5 include pneumonia (18%), preterm birth complication (14%), diarrhea (11%), intra-partum related complications (9%), malaria (7%), and neonatal sepsis, meningitis and tetanus (6%). Over 3.1 million children under five years of age die in South East Asia Region. India contributes to 25% of the over 6.9 million under-five deaths occurring worldwide every year. At the national level the mortality rate was estimated at 59 per 1000 live births, and the rate varies from 15 in Kerala to 83 in Assam.¹² Diarrheal diseases and acute respiratory infections account for a significant morbidity and mortality among under 5 children. In India acute...
respiratory infection is one of the major causes of death in under-five children. Hospital records from states with high mortality rates show that up to 13 percent of in-patient’s deaths from pediatrics wards are due to ARI. During 2011, there were about 26 million reported episodes of ARI with 2,492 deaths. The proportion of deaths due to ARI in the community is much higher as many children die at home.\(^3\) It is estimated that there are 1.7 episodes of diarrhea per child per year in under-fives. An estimated 400,000 children under-five die each year due to diarrhea.\(^4\)

Wealthy, industrialized countries of the world successfully underwent the "epidemiologic transition" from infectious diseases to degenerative diseases but developing countries have not yet achieved that transition.

The advent of modern sanitation and hygiene practices, effective vaccines, and antibiotics have significantly diminished the burden in the developed world, but infectious diseases remain the most common cause of death worldwide.\(^5\) India is going through a period of transition, both epidemiological and demographic transition. Infectious diseases are still persisting as major health problems in spite of having national programmes for the control of most of these diseases for almost half a century now. There are re-emerging infectious diseases which are adding to the burden of diseases.

In addition, there is an increasing prevalence of non-communicable diseases as a result of lifestyle changes and urbanization. These are the challenges that are to be tackled in the new millennium.\(^6\) To the best of our knowledge, there are a few literatures in India that directly shows the profile of common Infective diseases occurring in under five children that leads to frequent hospital visits. Although many studies have been done on the mortality due to individual diseases that reflects the morbidity pattern indirectly.

**METHODS**

The study was observational and descriptive in nature. The Study was conducted at Department of Paediatric, Chacha Nehru Bal Chikitsalaya, Geeta colony, Delhi (Associated to Maulana Azad Medical College, Delhi). The study took place for twelve months period from July 2012 to June 2013.

**Sample size**

Existing literature estimates that the prevalence of Acute Respiratory infection is 47.3% and the prevalence of Diarrhea is 26.4%. These two commonest infections account for 73.7% of the whole prevalence of common infections in children under five years of age

Sample size was calculated on the basis of the following formula:

$$\text{Sample size} = \frac{z^2 (1 - \alpha/2)}{d^2}$$

Whereas,

- \(\alpha\) = Anticipated value of the proportion in the population.
- \(d\) = absolute precision required on either side of the proportion (5%).

$$z^2 (1 - \alpha/2) = 1.96$$

So, Sample size = 368.

**Sampling method**

- Patients were enrolled on two specific OPD days in a week over a period of one year. On every specific OPD day we recruited patients by using systematic random sampling (Every 15\(^{th}\) case attending to specific OPD fulfilling the inclusion criteria were selected for the study).
- Clinical details of the patient were collected in a predesigned Performa.
- Relevant investigations were done as far as possible to make a diagnosis.
- The cases were enrolled till the target sample size of 368 was reached.

**Inclusion criteria**

- Children of age group 1 month to 5 years, belonging to all nutritional & socioeconomic status with some specific common infections were included in the study.
- Children fulfilling the diagnostic criteria of following common infections as mentioned below were included in the study.
  a) Respiratory tract infection
  b) Diarrhea
  c) Tuberculosis
  d) Urinary tract infection
  e) Malaria
  f) Enteric fever
  g) Measles
  h) Pyoderma
  i) Parasitic infection

**Exclusion criteria**

Children having risk factors which predispose infection, except malnutrition were excluded from study (e.g. Malignancy, Immunodeficiency diseases, Nephrotic syndrome and Immunosuppressive drugs).

**Methodology**

Standard diagnostic criteria for Respiratory tract infection, Diarrhea, Tuberculosis, Urinary tract infection, Malaria, Enteric fever, Measles, Pyoderma, Parasitic infections was followed for all children.
As per the diagnostic criteria for each and every disease studied for the present study, detailed history and thorough clinical examination was carried out. Investigations were done as and when required to confirm the diagnosis.

**Data analysis**
- All the data was checked and verify thoroughly to reduce the inconsistency.
- Data validation was done prior to analysis.
- Data analysis was entered using Microsoft World Excel 2007.

**RESULTS**
Respiratory tract infection and Diarrhea occurred most frequently in 7 to 24 month of child that was 82 (51.9%) and 53 (58.2%), respectively.

**Table 1: pattern of infection in children one month to five years of age (age distribution).**

<table>
<thead>
<tr>
<th>Infection</th>
<th>1-6 months</th>
<th>7-24 months</th>
<th>25-60 months</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Number</td>
<td>Number</td>
<td>Number</td>
</tr>
<tr>
<td>ARI</td>
<td>37</td>
<td>82</td>
<td>51.9</td>
<td>158</td>
</tr>
<tr>
<td>Diarrhea</td>
<td>11</td>
<td>53</td>
<td>27</td>
<td>91</td>
</tr>
<tr>
<td>TB</td>
<td>0</td>
<td>2</td>
<td>21</td>
<td>23</td>
</tr>
<tr>
<td>Malaria</td>
<td>0</td>
<td>8</td>
<td>16</td>
<td>24</td>
</tr>
<tr>
<td>Enteric fever</td>
<td>0</td>
<td>4</td>
<td>26</td>
<td>30</td>
</tr>
<tr>
<td>UTI</td>
<td>0</td>
<td>4</td>
<td>18.2</td>
<td>22</td>
</tr>
<tr>
<td>Measles</td>
<td>0</td>
<td>3</td>
<td>75</td>
<td>4</td>
</tr>
<tr>
<td>Pyoderma</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Parasitic infestation</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>48</td>
<td>156</td>
<td>164</td>
<td>368</td>
</tr>
</tbody>
</table>

Other infections as Tuberculosis 21 (91.3%), Malaria 16 (66.7%), Enteric fever 26(86.7%), urinary tract infection 18(81.8%) occurred mostly in 25-60 months of age.

Stool examination in Parasitic infestation showed that Amoeba 1 (7.1%), Giardia 1 (7.1%), Ascariasis 6 (42%), and Hookworms were 6 (42%) in total of 14 cases.

In present study we found that Anaemia was present in URI, Tuberculosis, Malaria, and Parasitic infestation with mean hemoglobin (Hb) ranges from 8.6 to 9.2.

Total leucocytes count (TLC) was higher in Pneumonia (mean=19683, SD=3467), and UTI (mean=16117, SD=3710).

Mantoux done in Tuberculosis cases showed that 20 (87%) cases had mantoux > 10 mm, and 3 (13%) cases had mantoux 5-10 mm. 3 (13%) children with Tuberculosis were sputum for AFB positive.

14 (60.8%) children with Tuberculosis showed chest X-ray patches. Malarial species found were Vivax (16, 66.7%), Falcipuram (1, 4.2%), and both 7 (29.2%) in total of 24 cases. In present study, we found that there was seasonal variation in respiratory tract infection, diarrhea and malaria. Respiratory tract infection occurred mostly in winter season i.e. 71 (44.9%) in respect to 51 (32.3%) in monsoon and 36 (22.8%) in summer.

Whereas Diarrhea occurred mostly in summer season i.e. 38 (41.8%) in respect to 28 (30.8%) in monsoon and 25 (27.5%) in winter.

Malaria occurred mostly in monsoon season 13 (54.2%). Whereas other infections occurred throughout the whole seasons.

**DISCUSSION**
We studied 368 cases of children 1-5 years attending OPD with some common infections. Most common age groups affected by the common infections were 2-5 years 164 (44.6%) followed by 6 months to 2 years 156 (42.4%). Gladstone BP et al found that the number of
infective illness episodes were more in the second and third years of life (11.27 and 10.52).

Overall infection rate was highest beyond 2 years of age which include Respiratory tract infection, Diarrhea and other infections like Tuberculosis, Enteric fever, Measles, UTI, and parasitic infection. However, if individual disease like Respiratory tract infection and Diarrhea were considered, they were more common in children of age less than 24 months.

### Table 3: Investigation (HB and TLC) in infections.

<table>
<thead>
<tr>
<th>Infection</th>
<th>Hb Mean</th>
<th>SE mean</th>
<th>SD</th>
<th>TLC Mean</th>
<th>SE mean</th>
<th>SD</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td>8.9</td>
<td>0.0429</td>
<td>0.1134</td>
<td>9261</td>
<td>717</td>
<td>1898</td>
</tr>
<tr>
<td>Pneumonia</td>
<td>10.1</td>
<td>0.1612</td>
<td>0.9938</td>
<td>19683</td>
<td>562</td>
<td>3467</td>
</tr>
<tr>
<td>Pharyngitis</td>
<td>10</td>
<td>-</td>
<td>-</td>
<td>7890</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Acute diarrhea</td>
<td>10.2</td>
<td>0.4359</td>
<td>1.2329</td>
<td>10901</td>
<td>1007</td>
<td>2849</td>
</tr>
<tr>
<td>Chronic diarrhea</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>10487</td>
<td>1409</td>
<td>2441</td>
</tr>
<tr>
<td>TB</td>
<td>8.6</td>
<td>0.156</td>
<td>0.7221</td>
<td>10080</td>
<td>538</td>
<td>2578</td>
</tr>
<tr>
<td>Malaria</td>
<td>9.2</td>
<td>0.1817</td>
<td>0.8904</td>
<td>8208</td>
<td>392</td>
<td>1923</td>
</tr>
<tr>
<td>Enteric fever</td>
<td>10.5</td>
<td>0.2183</td>
<td>1.1955</td>
<td>5308</td>
<td>161</td>
<td>881</td>
</tr>
<tr>
<td>UTI</td>
<td>10.5</td>
<td>0.2637</td>
<td>1.2368</td>
<td>16117</td>
<td>791</td>
<td>3710</td>
</tr>
<tr>
<td>Measles</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Pyoderma</td>
<td>9.2</td>
<td>-</td>
<td>-</td>
<td>9760</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Parasitic infestation</td>
<td>8.8</td>
<td>0.2101</td>
<td>0.7860</td>
<td>7948</td>
<td>518</td>
<td>1939</td>
</tr>
</tbody>
</table>

Males were 228 (62%) and females were 140 (38%). Probably male children are biologically weak and get more attention. However, in present study and in any other major study, there was no statistically significant association for development of infection with male sex. Gladstone BP et al found that that treatment was sought more frequently for boys (1388/2580 episodes, 53.8%) than for girls (1137/2257 episodes, 50.4%) (Wald test, p = 0.12). There was a slightly higher proportion of health care seeking for male children, even among educated mothers and households of higher socio-economic status. Interestingly, despite more morbidity in boys, girls were hospitalized on more occasions (49, 2.5%) than boys (57, 1.9%).

### Table 4: Mantoux in tuberculosis.

<table>
<thead>
<tr>
<th>Mantoux test result</th>
<th>Number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 5 mm</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5-10 mm</td>
<td>3</td>
<td>13</td>
</tr>
<tr>
<td>&gt; 10 mm</td>
<td>20</td>
<td>87</td>
</tr>
</tbody>
</table>

We found that the most common diagnosis was respiratory tract infection (158, 42.9%) followed by diarrhea (91, 24.7%), Tuberculosis (23, 6.3%). Direct comparison of findings between studies is difficult because of differences in study design, study populations, timing and differences in the measures of disease burden. However, our findings were close to study by Gladstone BP et al who showed that a total of 3370 hospital visits were made for 2525 episodes of illness and the most common diagnoses were acute respiratory infections (1593, 47.3%), diarrhea (889, 26.4%). Nwolisa CE et al described the morbidity pattern among pre-school children the five commonest causes of morbidity were malaria (60.7%), acute respiratory infection (35.8%), diarrheal disease (7.4%), skin infection (6.8%) and urinary tract infection (3.6%).

### Table 5: Types of Malarial parasites.

<table>
<thead>
<tr>
<th>Types of malaria parasite</th>
<th>Number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vivax</td>
<td>16</td>
<td>66.7</td>
</tr>
<tr>
<td>Falciparum</td>
<td>1</td>
<td>4.2</td>
</tr>
<tr>
<td>Both</td>
<td>7</td>
<td>29.2</td>
</tr>
<tr>
<td>Total</td>
<td>24</td>
<td>100</td>
</tr>
</tbody>
</table>

We found that in Respiratory tract infection, most common were URI 113 (71%) followed by pneumonia 38 (24.5 %) and pharyngitis 7 (0.04%). Other study also shows a similar pattern. Zaman K et al found that the overall incidence of ARI was 5.5 episodes per child-year observed; the prevalence was 35.4 per hundred days observed. Most of the episodes (96 percent) were upper respiratory infections (URI). The incidence of acute lower respiratory infections (ALRI) was 0.23 per child per year. Among the cases of Diarrhea, Acute Diarrhea 88 (23.9%) was common in respect to chronic Diarrhea 3 (0.8%). Ketema et al showed that acute diarrhea is a major public health problem in Ethiopian children under five years of age. Of 5,762 children with all forms of diarrhea seen during the study period 264 (5%) had persistent diarrhea. Lindtjorn B et al showed that the frequency of illness episodes in Dubluk were Diarrhea 42.1%, Fever 9.1%, Respiratory infections 25.8% and in Elka were diarrhea 46.1%, fever 32.8%, respiratory
infection 45.2%. Black RE et al showed that of the estimated 8.795 million deaths in children younger than 5 years worldwide in 2008, infectious diseases caused 68% (5.970 million), with the largest percentages due to pneumonia (18%, 1.575 million, uncertainty range [UR] 1.046 million-1.874 million), diarrhea (15%, 1.336 million, 0.822 million-2.004 million), and malaria (8%, 0.732 million, 0.601 million-0.851 million).13

The above studies indirectly reflect the morbidity pattern among children due to various infective diseases.

Authors found that Respiratory tract infection and Diarrhea occurred most frequently in 7 to 24 month of child that was 82 (51.9%) and 53 (58.2%), respectively. Islam F et al found that Acute Respiratory tract infections were common in the age group of 1-12 months (38.14%) followed by 13-24 months (21.6%).14 Other study done by Zaman K et al found that the incidence of URI was highest in 18-23-month-old children, followed by infants 6-11 months old. The highest incidence of ALRI was observed in 0-5-month-old infants followed by 12-17-month-old children.10

In present study, most common clinical presentations were fever (64.9%) followed by cough (54.6%), running nose (41.8%), loose motion (33%), among the children suffering from infective disease.

Duarte DM et al found that Respiratory infections present most frequently with complain of nasal discharge (82.1%) and cough (80.4%). Around 6.1% of the total number of the cases was due to pneumonia (77.7% of the cases involving hospitalization).15 Wang XP et al in their study found that symptoms and signs upon admission at traditional Chinese medicine (TCM) and western medicine (WM) hospitals were cough (99.3% vs. 98.6%), rales (84.8% vs. 75.0%), and fever (74.9% vs. 84.0%) in frequency. Authors found that Acute Diarrhea presented with fever (30, 34.5%); loose motion (91, 100%); blood or mucous in stool (21, 23.9%); nausea or vomiting (86, 97.7%); some dehydration (8, 8.8%); some were associated with running nose (26, 29.5%) and cough (25, 28.4%).16 Whereas Chronic Diarrhea presented with fever (66.7%), nausea or vomiting (66.7%) and blood or mucous in stool (66.7%). Ketema L et al showed that watery diarrhea with no dehydration were the main clinical feature. Nearly 7% of the patients had dysentery.11

In present study we found that Children with Tuberculosis presented with fever (22, 95.7%); cough (15, 65.2%); H/o Koch’s contacts (19, 82.6%); pain abdomen (5, 21%); pallor (22, 95.7%); lymphadenopathy (22, 95.7%), and chest crepts (10, 43.5%). Marais BJ et al found that children with Tuberculosis presented with persistent non remitting cough of > 2 weeks' duration, documented failure to thrive (in the preceding 3 months), and fatigue provided reasonable diagnostic accuracy in HIV uninfected children (sensitivity: 62.6%; specificity: 89.8%; positive predictive value: 83.6%); the performance was better in the low-risk group (> or = 3 years; sensitivity: 82.3%; specificity: 90.2%; positive predictive value: 82.3%) than in the high-risk group (< 3 years; sensitivity: 51.8%; specificity: 92.5%; positive predictive value: 90.1%).17 In children with an uncertain diagnosis at presentation, clinical follow-up was a valuable diagnostic tool that further improved diagnostic accuracy, particularly in the low-risk group.

In present study we found that children having malaria presented with fever (24, 100%); nausea or vomiting (29, 95.8%); pallor (17, 70.8%); hepatomegaly (19, 79.2%), and splenomegaly (24, 100%). Gehlawat VK et al found that the clinical features of severe vivax malaria (n = 18) were abnormal sensorium [9 (50%)], multiple seizures [8 (44.4%)], jaundice [5 (27-8%)], severe anaemia [5 (27-8%)], and shock [3 (16-7%)].18

The stool examination showed the frequency of parasitic infection was Amoeba 1 (7.1%), Giardia 1 (7.1%),

<table>
<thead>
<tr>
<th>Infection</th>
<th>Number</th>
<th>%</th>
<th>Number</th>
<th>%</th>
<th>Number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARI</td>
<td>51</td>
<td>32.3</td>
<td>71</td>
<td>44.9</td>
<td>36</td>
<td>22.8</td>
</tr>
<tr>
<td>Diarrhea</td>
<td>28</td>
<td>30.8</td>
<td>25</td>
<td>27.5</td>
<td>38</td>
<td>41.8</td>
</tr>
<tr>
<td>TB</td>
<td>6</td>
<td>26.1</td>
<td>9</td>
<td>39.1</td>
<td>8</td>
<td>34.8</td>
</tr>
<tr>
<td>Malaria</td>
<td>13</td>
<td>54.2</td>
<td>4</td>
<td>16.7</td>
<td>7</td>
<td>29.2</td>
</tr>
<tr>
<td>Enteric fever</td>
<td>9</td>
<td>30</td>
<td>11</td>
<td>36.7</td>
<td>10</td>
<td>33.3</td>
</tr>
<tr>
<td>UTI</td>
<td>6</td>
<td>27.3</td>
<td>9</td>
<td>40.9</td>
<td>7</td>
<td>31.8</td>
</tr>
<tr>
<td>Measles</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>50</td>
<td>2</td>
<td>50</td>
</tr>
<tr>
<td>Pyoderma</td>
<td>2</td>
<td>100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Parasitic infestation</td>
<td>6</td>
<td>42.9</td>
<td>5</td>
<td>35.7</td>
<td>3</td>
<td>21.4</td>
</tr>
<tr>
<td>Total</td>
<td>48</td>
<td>13</td>
<td>156</td>
<td>164</td>
<td>44.6</td>
<td>368</td>
</tr>
</tbody>
</table>

Table 6: Pattern of infection as per season in children one month to five years of age
Ascariasis 6 (42%), and Hookworms 6 (42%) in total of 14 cases. Bechir et al in their study found that prevalence of intestinal parasitic infection was 75% (CI 68-83) among women and 60% (CI 53-66) among children. The predominant helminthes species was Ascaris lumbricoides. The hookworm prevalence was 14% (CI 8-20) in women and 18% (CI 13-23) in children.19

Mantoux done in Tuberculosis cases showed that 20 (87%) cases had mantoux > 10 mm, and 3 (13%) cases had mantoux 5-10 mm. 3 (13%) children with Tuberculosis were sputum for AFB positive. 14 (60.8%) children with Tuberculosis showed chest X-ray patches. Seth et al found that a positive Mantoux test was noted in 77% of cases. The most prominent lesion on radiology was parenchymal (51.4%). In nearly two third of cases, both Mantoux test and X-ray chest was positive. A family history of tuberculosis and BCG vaccination was significantly associated with positive Mantoux test (p <0.01).20 Malarial species found were Vivax (16, 66.7%), Falciparum (1, 4.2%), and both 7 (29.2%) in total of 24 cases. Yadav et al found in their study that A total of 13(55.3%) patients with Plasmodium vivax (PV), 79 (33.3%) with Plasmodium falciparum (PF) and 27 (11.4%) with mixed infections were admitted in Hospital.21

We found that there was seasonal variation in respiratory tract infection, diarrhea and malaria. Respiratory tract infection occurred mostly in winter season i.e. 71 (44.9%) in respect to 51 (32.3%) in monsoon and 36 (22.8%) in summer. Whereas Diarrhea occurred mostly in summer season i.e. 38 (41.8%) in respect to 28 (30.8%) in monsoon and 25 (27.5%) in winter. Malaria occurred mostly in monsoon season 13 (54.2%). Whereas other infections occurred throughout the whole seasons. Zaman K et al also found a seasonal variation in infections. The incidence rates of URI were higher during the monsoon and pre-winter periods, and that of ALRI at the end of the monsoon and during the pre-winter periods.10

CONCLUSION

Most common infections in children 1 month to 5 years of age was Respiratory tract infection followed by Diarrhea, Enteric fever, Malaria, Tuberculosis, Urinary tract infection, Parasitic infection, Measles and Pyoderma.

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Conflict of interest: None declared
Ethical approval: The study was approved by the Institutional Ethics Committee

REFERENCES
