A Record Review on the Health Status of Rohingya Refugees in Bangladesh

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Abstract

The Rohingya refugee crisis is neither new nor a sudden problem for Bangladesh. However, the recent violence in August 2017 instigated the migration of 6,95,000 additional Rohingyas into Bangladesh and as of June 2018, around one million Rohingya refugees were residing in Bangladesh. Against this backdrop, it is important to know their current health status because, without this information, equal and equitable health service provision is not possible. So, we conducted this review to understand the current health status of the Rohingya refugees in Bangladesh. For this purpose, a systematic literature search was conducted in July 2018 using transparent selection criteria and the keywords ‘Rohingya’, ‘Health’, ‘Bangladesh’. After screening the title and abstract and removing duplication, 12 articles and 21 organizational reports were found eligible for final review. Major health problems prevailing among Rohingya refugees are unexplained fever, acute respiratory infection, and diarrhea. Non-communicable diseases like hypertension, diabetes, and their risk factors are also highly prevalent among these people. More than half of the Rohingya refugees are women and many of them experience sexual abuse or exploitation. More than 50,000 Rohingya refugee women were pregnant, however, a significant portion of pregnant women did not have access to quality antenatal care. Mental health problems like post-traumatic stress disorder (PTSD), depression, and suicidal thoughts were also commonly prevailing in the Rohingya community.

Introduction And Background

The Rohingya refugee crisis is neither new nor a sudden problem for Bangladesh. However, the recent introduction of the Emergency Immigration Act by the military regime of Myanmar in 1978, the minority Muslim Rohingyas started flocking to Bangladesh. The total number of Rohingya refugees in Bangladesh is debatable. The United Nations Refugee Agency (UNHCR) reported that in 2011, around 265,000 Rohingya Refugees were residing, out of which 29,000 were recognized, 56,000 were unrecognized, and 200,000 were undocumented by the Government of Bangladesh (GoB) and other non-governmental organizations (NGOs) [1].

However, the recent violence in August 2017 instigated the migration of 6,93,000 additional Rohingyas, increasing the number, as of June 2018, to around 1 million (918,936) in Bangladesh [2]. Refugees from the recent exodus found a place in large camps or settlements, and their total number is 904,056. Among these camps, the Kutupalong Expansion Site (an extension made near the original Kutupalong Refugee Camp) houses the majority of the refugees (610,251), followed by Hakimpura-Jamtoli-Bagghona Camp (98,529), and Nayapara Camp (71,562). The rest of the refugees are housed among the host communities of Cox’s Bazar Sadar, Ramu, Teknaf, and Ukhiya (120,044).

The recent exodus of August 2017

Rohingyas live in the Rakhine state of Myanmar, adjacent to the Bangladesh border. The 1982 Citizenship Act of Myanmar created three unequal tiers in the citizenship of Myanmar, namely, Full Citizens (pink card), Associate Citizens (blue card), and Naturalized Citizens (green card), and thus disenfranchised several ethnic groups, including the Rohingyas [3]. As a result of alleged persecutions followed by the enaction of the law, a large number of Rohingyas eventually fled illegally to not only Bangladesh but also to countries such as Saudi Arabia, Pakistan, Thailand, and Malaysia [4]. Aung San Suu Kyi took up the role of the State Counselor of Myanmar in 2016. In Rakhine State, she restarted the citizenship verification process, which faced resistance from the Rohingya community [5]. The latest exodus of Rohingyas began on August 25, 2017, as the consequence of the Myanmar army’s and Rakhine Buddhists’ campaign against Rohingya civilians followed by a coordinated attack of Arakan Rohingya Salvation Army (ARSA) on 30 police posts [5-6]. Within two months, from August 2017 to October 2017, hundreds of thousands of Rohingya refugees fled to Bangladesh through the Bangladesh-Myanmar border [2].

This massive influx made Rohingya refugees live in settlements where the majority of them did not have access to good housing, safe drinking water, and good sanitation systems, which, in turn, increased their vulnerability to a wide range of infectious diseases [2]. Additionally, Rohingya people are exposed to war-related traumatic events, including the destruction of property, loss of family members, witnessing extreme violence, and injury or loss of property. These events have the potential to make Rohingya refugees suffer...
from different psychological distress [5]. Against this backdrop, it is important to ensure health service for
the Rohingya population, and to do so knowing about their current health status is imperative because
without this information, equal and equitable health service provision, as well as appropriate resource
allocation, is not possible. Besides, failure to provide adequate health service and thus to maintain the
sound health of Rohingya refugees might adversely affect the health status of Bangladeshi people as well.
So, we conducted this review to understand the current health status of the Rohingya refugees in
Bangladesh. This will help the policymakers determine what evidence needs to be generated and how to
tackle the Rohingya situation in Bangladesh. This will also help international or bilateral agencies to
prioritize their efforts for this protracted refugee crisis.

**Review**

**Methods**

**Search Strategy**

A literature search was conducted in July 2018 using transparent selection criteria, to allow for a detailed
analysis of the health issues of Rohingya refugees in Bangladesh. Both peer-reviewed and gray literature
were searched separately by two researchers in databases: Google, Google Scholar, and PubMed. Keywords
used for the literature search were: Rohingya, Health, and Bangladesh. As of July 2018, the number of
articles found on Google Scholar using the keywords ‘Rohingya’, ‘Health’, ‘Bangladesh’ was 5,550 (616 since
2017). Using the same keywords on PubMed, we found 27 (using the keyword ‘Rohingya’); 4,06,7331 (using
the keyword ‘Health’), and 17,730 (using the keyword ‘Bangladesh’) articles. We also conducted manual
searching to find relevant organizational reports. We screened the titles and abstracts of all these
articles and reports for initial inclusion. The following exclusion criteria were applied for further refinement
and abridgment of the search.

**Inclusion Criteria**

§ Articles/organizational reports focused on the health issues of Rohingya people.

§ Articles/organizational reports based on both primary and secondary research.

§ Articles/organizational reports using both quantitative and qualitative approaches.

**Exclusion Criteria**

§ Articles/organizational reports published before the year 2017 (to get the most recent health status of
Rohingya refugees reached with the recent exodus).

§ Articles/organizational reports on Rohingyas residing in Myanmar or countries other than Bangladesh
(e.g., Thailand, Malaysia, Indonesia, India, Pakistan). However, multicounty studies that reported the health
issues of Rohingyas residing in Bangladesh were included.

§ Correspondence, perspective, comments, letters, conference papers, and thesis/dissertation.

After screening the title and abstract and removing duplication, 12 articles were found eligible for review.
Besides, 21 organizational reports from United Nations High Commission on Refugees (UNHCR), World
Health Organization (WHO), Directorate General of Health Services (DGHS) of Bangladesh, Inter Sector
Coordination Group (ISCG) on Rohingyas in Bangladesh, United Nations Children’s Fund (UNICEF),
International Organization for Migration (IOM), Save the Children, United Nations Population Fund
Bangladesh (UNFPA), and Medecin Sans Frontieres (MSF) published since 2017 were nominated for this
paper, based on the above-mentioned inclusion and exclusion criteria.

**Data Extraction**

Two authors (TI and IS) reviewed these documents carefully and extracted the findings in terms of the
following headings:

§ Demographic information

§ Infectious diseases

§ Non-communicable diseases

§ Nutritional status

§ Child health

§ Mental health
After data extraction, two authors (MMIB and MIH) crosschecked the tables to ensure consistency. Any disagreement that appeared during data extraction was resolved by group consensus. Finally, data analysis was performed using the thematic approach.

Results

Demographic Information

As of June 2018, nearly one million Rohingya refugees from 212,415 families are residing in Bangladesh, of which 904,056 reside in refugee camps and 120,044 reside in host communities[2]. Among newly-arrived Rohingya refugees, 54% were children, 60% were women and girls, and 10% were pregnant and lactating mothers[7].

Infectious Diseases

According to the Early Warning Alert and Response System (EWARS), the major health problems prevailing among Rohingya refugees are unexplained fever (2,27,928), acute respiratory infection (2,23,651), and diarrhea (1,92,560)[8]. Rohingya camps experienced a sudden outbreak of diphtheria in November 2017 and a measles outbreak in December 2017-April 2018[8]. Though no system has been established yet to detect tuberculosis (TB) cases in Rohingya camps, it can be anticipated that TB cases are highly prevalent among Rohingya refugees considering the fact that Myanmar is one of the top 30 countries with the highest TB burden[9].

Non-Communicable Diseases

We hardly found any study estimating the prevalence of non-communicable diseases (NCDs) among Rohingya refugees in Bangladesh. BRAC conducted a need assessment in March 2018 and reported that 51.5% had hypertension and 14.2% had diabetes[10]. Besides, 36,930 persons were suffering from injuries[8]. NCD risk factors, such as smoking, using smokeless tobacco products, and indoor air pollution, are also highly prevalent among these people[11]. The actual burden of NCDs might currently be imperceptible due to the lack of efforts to detect these diseases in Rohingya camps[11].

Nutritional Deficiency

Nutritional deficiencies are highly prevalent among Rohingya refugees, especially among children. A recent population-based, cross-sectional study conducted in the Kutupalong refugee camp found that in children aged among six to 59 months, nearly half were suffering from stunting (height for age z-score <-2) and anemia and about one-fourth had Global Acute Malnutrition (GAM) (weight for height z-score: <-2 or bilateral pitting edema)[12]. Among Rohingya children, 4.1% and 4.2% were suffering from severe acute malnutrition (SAM) and moderate acute malnutrition (MAM), respectively[13]. The nutritional status of adolescent girls, as well as pregnant and lactating women in Rohingya camps, was also quite poor[13-14]. According to a survey conducted in 2018, around 10% of Rohingya women were undernourished[12].

Child Health

Evidence suggests that 54% of Rohingya refugees are children, and 705,000 of them need humanitarian assistance[7]. EWARS reported 82,382 consultations among under-five children through surveillance between the period August 25 and November 18, 2017[8]. Among these, nearly one-third (52%) and just above one-fourth (27%) were cases of respiratory infections (ARI) and unexplained fever, respectively. Cases of acute watery diarrhea, skin diseases, injuries, eye infections, and malaria were also found among this group of children[8]. Nutritional deficiencies like underweight, stunting, wasting, and iron deficiency anemia is highly prevalent among Rohingya children[12]. Female children also reported experiencing mental stress regarding their security issues, as they have to share toilets with males and they do not have private space in their tents for sleeping, bathing, and changing their clothes[15].

Sexual and Reproductive Health

Based on the latest UNHCR family counting exercise demographic data, more than half of the Rohingya refugees are women and around 316,000 of them are of reproductive age[13]. WHO reported that in February 2018, more than 50,000 women in the Rohingya community were pregnant[13]. Between February 2018 and May 2018, the expected cases of delivery and obstetrical complications were estimated at 16,513 and 2,477, respectively. The latest available data reveal that a significant portion of pregnant Rohingya women could not receive antenatal care (ANC) because of the unavailability or inaccessibility of the service[15,16]. In many sexual and reproductive health centers, there is a limited facility of essential ANC components such as blood testing, urine testing, and tetanus vaccination[16]. The utilization of health facilities is further hampered by the restriction in movements of the refugee population outside their respective camps[11,13].
Gender-Based Violence (GBV)

A recent study conducted in the Kutupalong and Nayapara refugee camps found that Rohingya women frequently experience sexual abuse or exploitation such as rape, forced sexual favors, and unwanted sex [17]. UNFPA, additionally, reported that more than 14,000 Rohingya girls and women experienced GBV between August 2017 and December 2017 [18]. Twelve point eight percent (12.8%) of women and girls experienced forced sexual favors, and 8.1% experienced forced and unwanted sex [17]. However, because of the stigma and humiliation associated with sexual violence, it is anticipated that GBV is underreported and the actual number of GBV victims are much higher [7].

Mental Health

There is a scarcity of evidence on mental health issues of Rohingya refugees residing in Bangladesh. A recently published cross-sectional study stated that 56.0% of Rohingya refugees were suffering from post-traumatic stress disorder (PTSD). Symptoms of depression and suicidal thoughts were also prevailing among 89.0% and 13.0% of people of the Rohingya community [17]. Female children also reported experiencing mental stress regarding their personal security, as they have to share toilets with the males and they do not have private space in their tents for sleeping, bathing, and changing their clothes [15].

Table 1 lists the current health status of Rohingya refugees in Bangladesh.

<table>
<thead>
<tr>
<th>Type of disease/symptom/health event</th>
<th>Name of disease/symptom/health event</th>
<th>Affected population</th>
<th>Total cases</th>
<th>Prevalence</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Infectious Diseases</strong></td>
<td>Unexplained fever</td>
<td>Adult, children</td>
<td>2,27,928</td>
<td>N/A</td>
<td>WHO, 2018a</td>
</tr>
<tr>
<td></td>
<td>Acute respiratory infection</td>
<td>Adult, children</td>
<td>2,23,651</td>
<td>N/A</td>
<td>WHO, 2018a</td>
</tr>
<tr>
<td></td>
<td>Diarrhea (watery and bloody)</td>
<td>Adult, children</td>
<td>1,92,560</td>
<td>N/A</td>
<td>WHO, 2018a</td>
</tr>
<tr>
<td></td>
<td>Malaria</td>
<td>Adult, children</td>
<td>53</td>
<td>N/A</td>
<td>WHO, 2018a</td>
</tr>
<tr>
<td></td>
<td>Measles/Rubella</td>
<td>Adult, children</td>
<td>1,410</td>
<td>N/A</td>
<td>EWARS, 2018</td>
</tr>
<tr>
<td></td>
<td>Acute jaundice syndrome (Hepatitis A, B, C; Leptospira)</td>
<td>Adult, children</td>
<td>12,842</td>
<td>N/A</td>
<td>EWARS, 2018</td>
</tr>
<tr>
<td></td>
<td>Measles (outbreak) (Dec 2017-Apr 2018)</td>
<td>Children (81% U5)</td>
<td>1,231</td>
<td>N/A</td>
<td>EWARS, 2018</td>
</tr>
<tr>
<td></td>
<td>Diphtheria (outbreak)</td>
<td>Adult, children</td>
<td>7,772 (42 death)</td>
<td>N/A</td>
<td>EWARS, 2018</td>
</tr>
<tr>
<td></td>
<td>Tuberculosis</td>
<td>Adult, children</td>
<td>4,000 (estimated)</td>
<td>N/A</td>
<td>WHO SEAR, 2018</td>
</tr>
<tr>
<td></td>
<td>HIV/AIDS</td>
<td>Adult, children</td>
<td>5,000 (estimated)</td>
<td>N/A</td>
<td>WHO SEAR, 2018</td>
</tr>
<tr>
<td><strong>Non-communicable Diseases</strong></td>
<td>Hypertension</td>
<td>Adult</td>
<td>N/A</td>
<td>51.5%</td>
<td>Balsari et al., 2018</td>
</tr>
<tr>
<td></td>
<td>Diabetes</td>
<td>Adult</td>
<td>N/A</td>
<td>14.2%</td>
<td>Balsari et al., 2018</td>
</tr>
<tr>
<td></td>
<td>Injuries/Wounds</td>
<td>Adult, children</td>
<td>36,930</td>
<td>N/A</td>
<td>EWARS, 2018</td>
</tr>
<tr>
<td><strong>Nutritional Deficiency</strong></td>
<td>Stunting/chronic undernutrition</td>
<td>Children (U5)</td>
<td>N/A</td>
<td>43.4%</td>
<td>Leidman et al., 2018</td>
</tr>
<tr>
<td></td>
<td>Global acute malnutrition (GAM)</td>
<td>Children (U5)</td>
<td>N/A</td>
<td>24.3%</td>
<td>Leidman et al., 2018</td>
</tr>
<tr>
<td></td>
<td>Anemia</td>
<td>Children (U5)</td>
<td>N/A</td>
<td>47.9%</td>
<td>Leidman et al., 2018</td>
</tr>
<tr>
<td></td>
<td>Women (RA)</td>
<td>Women (RA)</td>
<td>N/A</td>
<td>57.2% (estimated)</td>
<td>WHO SEAR, 2018</td>
</tr>
<tr>
<td></td>
<td>Severe acute malnutrition (SAM)</td>
<td>Children</td>
<td>7,796</td>
<td>4.1%</td>
<td>WHO, 2018a</td>
</tr>
<tr>
<td></td>
<td>Moderate acute malnutrition (MAM)</td>
<td>Children</td>
<td>7,854</td>
<td>4.2%</td>
<td>WHO, 2018a</td>
</tr>
<tr>
<td></td>
<td>Acute respiratory infection</td>
<td>Children (U5)</td>
<td>N/A</td>
<td>32.0%</td>
<td>EWARS, 2018</td>
</tr>
</tbody>
</table>
TABLE 1: Current health status of Rohingya refugees residing in Bangladesh (as of June 2018)

<table>
<thead>
<tr>
<th>Health Category</th>
<th>Condition</th>
<th>Age Group</th>
<th>Data Source</th>
<th>Proportion or Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child Health*</td>
<td>Unexplained fever</td>
<td>Children (U5)</td>
<td>N/A</td>
<td>27.0%</td>
</tr>
<tr>
<td></td>
<td>Acute watery diarrhea</td>
<td>Children (U5)</td>
<td>N/A</td>
<td>23.0%</td>
</tr>
<tr>
<td></td>
<td>Skin diseases</td>
<td>Children (U5)</td>
<td>N/A</td>
<td>6.0%</td>
</tr>
<tr>
<td></td>
<td>Pregnancy (Feb 2018)</td>
<td>Women (RA)</td>
<td>53,266</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Expected delivery (Feb-May 2018)</td>
<td>Women (RA)</td>
<td>16,513</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Obstetrical complications (Feb-May 2018)</td>
<td>Women (RA)</td>
<td>2,477 (estimated)</td>
<td>N/A</td>
</tr>
<tr>
<td>Sexual and Reproductive Health</td>
<td>GBV (Aug 2017-Dec 2017)</td>
<td>Girls, women</td>
<td>&gt;14,036</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Forced sexual favors</td>
<td>Girls, women</td>
<td>N/A</td>
<td>12.8%</td>
</tr>
<tr>
<td></td>
<td>Forced and unwanted sex</td>
<td>Girls, women</td>
<td>N/A</td>
<td>8.1%</td>
</tr>
<tr>
<td></td>
<td>Post-traumatic stress disorder (PTSD)</td>
<td>Adult</td>
<td>N/A</td>
<td>36.0%</td>
</tr>
<tr>
<td></td>
<td>Depressive symptoms</td>
<td>Adult</td>
<td>N/A</td>
<td>89.0%</td>
</tr>
<tr>
<td></td>
<td>Suicidal thoughts</td>
<td>Adult</td>
<td>N/A</td>
<td>13.0%</td>
</tr>
<tr>
<td></td>
<td>Feel afraid</td>
<td>Adult</td>
<td>N/A</td>
<td>14.0%</td>
</tr>
</tbody>
</table>

Discussion

Our review revealed that Rohingya camps are burdened with many infectious diseases such as respiratory tract infections and diarrhea. Infectious diseases are major contributors to ill health among refugee populations across the world [19-20]. A post-arrival medical assessment of European and African refugees in Western Australia also found that infectious diseases like TB (55.0%), hepatitis B (56.7%), syphilis (5.0%), malaria (8.0%), and giardiasis (9.5%) were quite common among the refugee population [21]. Infectious diseases alone or in combination with malnutrition are attributable to over three-quarters of deaths in conflict situations [22]. A study conducted among Rwandan refugees residing in the Democratic Republic of the Congo (DRC) reported that, immediately after arrival in DRC in 1994, 85% of total deaths were caused by diarrheal diseases (cholera, dysentery) [23]. The unavailability of safe drinking water, poor sanitation, overcrowded living place, and poor air quality in combination with poor immunity attributed to undernutrition makes the refugee population highly vulnerable to transmissible diseases [23-24]. If they cannot be controlled, these diseases, most alarmingly diphtheria, might be transmitted to the Bangladeshi host community and pose an adverse impact on the country’s health system. The provision of preventive, promotive, as well as curative, health services, therefore, needs to be ensured for the Rohingya population, to protect the health of the refugee community and host community.

It was found from our study that sexual and reproductive health is a significant concern among Rohingya refugees in Bangladesh. Previous research also found that refugees and forcibly displaced women are extremely vulnerable to negative sexual and reproductive health outcomes [25-26], mostly due to lack of knowledge on sexual and reproductive health issues such as menstruation, menopause, sexually transmitted diseases (STD), and cervical screening [25]. Having inadequate information on health service in a host country [27-28] and giving lower priority to one’s own health in comparison to concerns such as shelter, food, and other basic needs also play a role in this regard [29-30]. It is evident that women in humanitarian settings experience pregnancy-related complications and adverse birth outcomes more frequently when compared with pre-conflict situations [31-34]. Therefore, organizations working in Rohingya settlements should take the necessary steps to make reproductive health services available, accessible, and affordable; to ensure the quality of care and to increase sexual and reproductive health knowledge and awareness among Rohingya women in Bangladesh.
refugee women. Using modern technologies, such as mobile phones, mobile apps, and social media, can be an approach to address these issues [35], however, some additional issues need to be considered carefully before using technology in Rohingya settlements. These include the availability of technologies among the target group, their level of education, and their health-related beliefs and norms [36].

Our study reveals the scarcity of evidence on NCDs among Rohingya refugees in Bangladesh. However, existing literature suggests that different non-communicable diseases like hypertension and diabetes are prevalent in Rohingya communities. This finding is in agreement with the finding of previous studies, in which NCDs were identified as major health concerns in humanitarian settings across the globe [37-43]. This finding might be explained by the high exposure of the refugee population to different behavioral and environmental risk factors of developing NCDs [44]. After migration, refugee populations often experience food insecurity and substantial dietary acculturation, which leads them to adopt unhealthy dietary habits [44-46]. Changes in family dynamics and responsibilities, along with the reduced scope of performing physical activity, make them lead a sedentary life [47-48]. Most importantly, mental stress appeared as a consequence of violence, and migration-related factors, such as adjusting to a different environment in a new country, intensify the vulnerability of refugee people to experience NCDs like hypertension [42,48].

Conclusions

Based on our literature review, we strongly recommend context-specific strategies and a multistakeholder approach to address the health problems of the Rohingya refugees in Bangladesh. The GoB, in collaboration with national and international organizations, should generate and allocate financial resources to improve the availability, accessibility, and quality of health services provided to these people. Capacity building of service providers through the provision of systematic training on specific need-based issues can be beneficial. It is also imperative to place efficient and dedicated leaders in health facilities in that area. Further research is warranted to identify the health problems along with their distribution and determinants among Rohingya refugees. It is also essential to understand the knowledge, attitude, and perception of the Rohingya population regarding different health events, as well as their culture, beliefs, and norms of health-seeking behavior, to increase the utilization of health care service. Most importantly, all these activities to improve the health status of Rohingya refugees should comprehensively observe ethical issues. Besides, strides should be made to evaluate both the process and the effectiveness of the existing programs targeting the refugees. Finally, the GoB should continue cooperating with development and humanitarian partners until a conducive environment is created in Myanmar for them to return to their homes or a third-country settlement is agreed on.

Additional Information

Disclosures

Conflicts of interest: In compliance with the ICMJE uniform disclosure form, all authors declare the following: Payment/services info: All authors have declared that no financial support was received from any organization for the submitted work. Financial relationships: All authors have declared that they have no financial relationships at present or within the previous three years with any organizations that might have an interest in the submitted work. Other relationships: All authors have declared that there are no other relationships or activities that could appear to have influenced the submitted work.

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