




Difficulties faced by older Rohingya (forcibly displaced Myanmar nationals) adults in accessing medical services amid the COVID-19 pandemic in Bangladesh

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ABSTRACT

Background COVID-19 has seriously disrupted health services in many countries including Bangladesh. This research aimed to explore whether Rohingya (forcibly displaced Myanmar nationals) older adults in Bangladesh faced difficulties accessing medicines and routine medical care services amid this pandemic.

Methods This cross-sectional study was conducted among 416 Rohingya older adults aged 60 years and above residing in Rohingya refugee camps situated in the Cox's Bazar district of Bangladesh and was conducted in October 2020. A purposive sampling technique was followed, and participants' perceived difficulties in accessing medicines and routine medical care were noted through face-to-face interviews. Binary logistic regression models determined the association between outcome and explanatory variables.

Results Overall, one-third of the participants reported difficulties in accessing medicines and routine medical care. Significant factors associated with facing difficulties accessing medicine included feelings of loneliness (adjusted OR (AOR) 3.54, 95% CI 1.93 to 6.48), perceptions that older adults were at the highest risk of COVID-19 (AOR 3.35, 95% CI 1.61 to 6.97) and required additional care during COVID-19 (AOR 6.89, 95% CI 3.62 to 13.13). Also, the notable factors associated with difficulties in receiving routine medical care included living more than 30 min walking distance from the health centre (AOR 3.57, 95% CI 1.95 to 6.56), feelings of loneliness (AOR 2.20, 95% CI 1.25 to 3.87), perception that older adults were at the highest risk of COVID-19 (AOR 2.85, 95% CI 1.36 to 5.99) and perception that they required additional care during the pandemic (AOR 4.55, 95% CI 2.48 to 8.35).

Conclusion Many Rohingya older adults faced difficulties in accessing medicines and routine medical care during this pandemic. This call for policy-makers and relevant stakeholders to re-assess emergency preparedness plans including strategies to provide continuing care.

Key questions

What is already known?

- Older adults are more susceptible to increased risk of morbidity and mortality due to COVID-19.
- Rohingya people or forcibly displaced Myanmar nationals resides in an overpopulated camp environment with limited access to health and sanitation facilities.
- COVID-19 can further exacerbate the healthcare service delivery due to lockdown measures and social isolation.

What are the new findings?

- Overall, one-third of the older adults reported difficulties in accessing medicine and routine medical care.
- Key factors influencing access were distance to healthcare facilities, loneliness and perceived vulnerability of older people.

What do the new findings imply?

- Emergency preparedness plans should be revised, incorporating strategies to ensure adequate access to routine medical services, particularly for vulnerable people like older adults.

BACKGROUND

The greatest public health challenge of our time, the COVID-19 pandemic, has already caused more than four million deaths and confirmedly infected more than 236 million individuals worldwide as of 8 October 2021.¹ By the same date, there were more than 1.5 million confirmed cases and 27 654 deaths in Bangladesh.¹ Although everybody is at risk of COVID-19 infection, the intensity of the health and economic implications of the pandemic has been stronger in some segments of the population than in others.²

Since the emergence of the COVID-19, it has been well documented that older adults are at a higher risk of infection and death compared with the general population.³⁻⁵ Emerging evidence also shows that older adults with pre-existing chronic conditions are at increased risk of health consequences.⁶

Displaced populations and refugees, who have had to flee from their home countries due to political instability, war and natural disasters,⁷ are particularly at risk of COVID-19 because they reside in populated refugee camps where social distancing is difficult.⁸ Moreover, basic sanitation and hygiene facilities are meagre in the camp environment, and the availability of health services is limited with inadequate opportunities for proper diagnosis and management in an outbreak.⁹

The Rohingya people, a population groups that has faced the most persecution and human rights abuses globally,¹⁰ are Muslim minorities of Myanmar residing primarily in Rakhine state. Following years of conflict, Rohingya people started to flee in large numbers from their land on 25 August 2017 after brutal attacks set off by the Myanmar militants.¹¹ Bangladesh has shown laudable openness and empathy towards the displaced and vulnerable Rohingya population, providing temporary shelter and establishing the world's largest refugee camp in Cox's Bazar, the south-eastern district of Bangladesh.¹² According to the latest report by United Nations High Commissioner for Refugees, the total number of inhabitants in the camp reached 860,365, with 4% older adults aged 60 years and above.¹³

With high population density, ranging from 40 000 to 70 000 inhabitants per square kilometre, the Rohingya refugee camp areas are congested and overpopulated,¹⁴ which facilitates the rapid spread of coronavirus.¹⁵ As of 3 October 2021, there were 3084 confirmed COVID-19 positive cases and 32 deaths in the camp.¹⁶ According to an Inter Sectoral Coordination Group report,¹⁷ there were 129 health posts, 56 health centres, and only 10 hospitals for the entire Rohingya population residing in 34 camps where the hospital to population ratio is 1:130 000. This lack of health facilities makes it even more difficult to manage the outbreak and care for other chronic conditions contributing to a syndemic impact of the current COVID-19 pandemic.¹⁸ Moreover, there are widespread misconceptions regarding the prevention, spread and management of COVID-19 among the older adults in the camps, which may further exacerbate the condition and its management.¹⁹

Recent evidence from Bangladesh and India highlighted that access to routine health services and medication was seriously disrupted during the pandemic.^{20 21} A few studies conducted in the Rohingya camps amid this pandemic found that alongside the limited available healthcare facilities, healthcare service delivery can be seriously disrupted due to lockdown measures and social isolation.^{22 23} The restriction measures, including the government's stay-at-home orders, maintaining quarantine and isolation measures, affected both the general

population²⁴ and Rohingya refugees¹⁴ in Bangladesh. As a part of nationwide lockdown, public transportation, the most popular means of transportation, was ceased to restrict mass movement. Such halt of transportation service meant no vehicular means to go to health facilities. Research has also documented that lockdown measures adopted to contain the spread of coronavirus has caused disruptions in the delivery of essential health services in the Rohingya camps.¹⁴ This could result in limited access to routine health services and medications and increased their difficulties and vulnerability to the burden of diseases.^{14 25}

However, no previous studies have explored the difficulties faced by Rohingya older adults in receiving medicine and routine medical care during this pandemic. This study, therefore, aimed to address this gap, by examining the difficulties faced by the Rohingya older adults in accessing routine medical care and medications during the pandemic. We anticipate and thus hypothesise that Rohingya older adults faced greater difficulties in accessing routine medical care and medications during the pandemic.

METHODS

Study design and participants

This study followed a cross-sectional design and was carried out among 416 Rohingya older adults aged 60 years and above residing in camps situated in the Cox's Bazar district in the South-Eastern part of Bangladesh in October 2020. The detailed method of the study is presented elsewhere.¹⁹ The inclusion criteria included age ≥ 60 years and Rohingya Forcibly Displaced Myanmar Nationals (FDMN) status. Participants were excluded if they self-reported having any of the following criteria: adverse mental conditions (clinically diagnosed schizophrenia, bipolar mood disorder, dementia/cognitive impairment), a hearing disability or were unable to communicate with researchers.

Measures

Outcome measure

This study's primary outcome variable was difficulties faced by the participants in getting medicine, and the secondary outcome was difficulties faced by the participants in receiving routine medical care during the COVID-19 pandemic. The participants were asked the following questions: 'How much difficulty do you have accessing the medicine that you need because of the COVID-19 pandemic or social distancing rules?' and 'How much difficulty do you have receiving routine medical care that you need because of the COVID-19 pandemic restrictions imposed by Government of Bangladesh?'. The responses were dichotomised (0=no difficulties and 1=difficulties faced).

Explanatory variables

An extensive review of available studies guided the selection of explanatory variables.^{5 22 26 27} Explanatory variables

included age (categorised as 60–69, 70–79, and ≥80 years), sex (male/female), marital status (married/widowed), family size (≤4 and more than 4), literacy (unable to read and write/able to read and write), living arrangements (living with family /living alone), memory or concentration problem (no problem/low memory or concentration), walking distance from to the nearest health centre (<30 min/≥30 min), frequency of communication during COVID-19 (less than previous/same as previous), feeling of loneliness (hardly/sometimes to often), perceived that older adults required additional care during COVID-19 (yes/no), pre-existing non-communicable chronic conditions (yes/no) and perceived that older adults at highest risk of COVID-19 (yes/no).

Data collection tools and techniques

A pretested semistructured questionnaire in Bengali language was used to collect the information through face-to-face interviews. Data were electronically recorded in Survey CTO mobile app (<https://www.surveycto.com/>) by two data collectors, who were local residents of Cox's Bazar, fluent in Rohingya dialects and had previous experience of administering health surveys in electronic platform. The surveyors were trained extensively before the data collection through a half-day Zoom meeting on the data collection tools and techniques as well as procedures for maintaining COVID-19 safe behaviours during the data collection. During data collection, surveyors practised COVID-19 safety measures such as using facemasks, maintaining social distancing and practising cough etiquettes by covering coughs and sneezes with disposable tissues or clean clothes. Additionally, interviews were conducted in an open space outside participants' households while maintaining the confidentiality of their responses.

The English version of the questionnaire was first translated to Bengali language and then back-translated to English by two researchers to ensure the contents' consistency. The Bengali version of the tool was piloted among a small sample (n=10) of Rohingya older adults from the selected camp to refine the language in the final version. No changes were made following the pretest in the final tool. Data collection was accomplished using this final tool through face-to-face interviews of the participants and each of the interviews took around half an hour.

Statistical analysis

The distribution of the variables was assessed through descriptive analysis. χ^2 tests compared the prevalence of the outcome variables within different categories of explanatory variables with a 5% level of significance. We used a binary logistic regression model to determine the association of outcome variables with explanatory variables. The final model includes only the variables with $p < 0.25$ in the unadjusted analysis.²⁸ Both unadjusted and adjusted ORs (AOR) are reported with a 95% CI. We also performed the model diagnostics, such as multicollinearity and area under the curve in the model. All analyses were performed using the statistical software package Stata (V.14.0).

Table 1 Sociodemographic characteristics of the participants (N=416)

Characteristics	n	%
Age (year)		
60–69	308	74.0
70–79	83	20.0
≥80	25	6.0
Sex		
Male	251	60.3
Female	165	39.7
Marital status		
Married	389	93.5
Widowed	27	6.5
Family size		
≤4	167	40.1
>4	249	59.9
Literacy		
Unable to read and write	406	97.6
Able to read and write	10	2.4
Living arrangement		
Living with family	362	87.0
Living alone	54	13.0

Ethical approval

Both verbal and written informed consents were sought from the participants before administering the survey. Participation was voluntary, and participants did not receive any compensation. Written approval was also sought from the Office of the Refugee Relief and Repatriation Commissioner prior to accessing the camps.

Patient and public involvement

Patients and/or the public were not involved in developing research questions, designing, and conducting the study, and disseminating the results.

RESULTS

Participants' characteristics

The majority of the participants were aged 60–69 years (74.0%), male (60.3%), married (93.5%) and illiterate (97.6%). Around 60% of respondents belonged to a family of greater than four and more than 1 in 10 participants (13%) reported living alone (table 1). Overall, 30% of the participants reported difficulties accessing both medicine (primary outcome) and routine medical care (secondary outcome) (table 2).

Bivariate analyses of difficulties receiving medical care services

Table 2 shows the bivariate analyses between participants' characteristics and the primary and secondary outcomes. Difficulties in accessing medicine were significantly more likely among participants living

Table 2 Bivariate analysis of difficulties faced in accessing medical services amid COVID-19 pandemic by older Rohingya (forcibly displaced Myanmar nationals) adults and selected background characteristics (N=416)

Characteristics	Experienced difficulties accessing medicine		Experienced difficulties receiving routine medical care	
	n (%)	P-value	n (%)	P-value
Overall	120 (30.2)		118 (30.0)	
Age (year)				
60–69	93 (31.5)	0.615	89 (30.5)	0.887
70–79	21 (25.9)		22 (27.9)	
≥80	6 (28.6)		7 (31.8)	
Sex				
Male	64 (26.5)	0.040	60 (25.1)	0.008
Female	56 (36.1)		58 (37.7)	
Family size				
0–4	44 (27.9)	0.401	46 (28.9)	0.696
>4	76 (31.8)		72 (30.8)	
Living arrangement				
Living with family	98 (28.3)	0.032	99 (29.2)	0.373
Living alone	22 (43.1)		19 (35.2)	
Problem in memory or concentration				
No problem	93 (27.4)	0.002	99 (29.5)	0.556
Low memory or concentration	27 (47.4)		19 (33.3)	
Walking distance to the nearest health centre				
<30 min	86 (27.6)	0.027	71 (23.1)	<0.001
≥30 min	34 (40.0)		47 (55.3)	
Frequency of communication during COVID-19				
Same as previous	19 (11.5)	<0.001	23 (13.8)	<0.001
Less than previous	101 (43.7)		95 (42.0)	
Feeling of loneliness				
Hardly	65 (24.2)	<0.001	66 (24.6)	<0.001
Sometimes to often	55 (43.0)		52 (41.6)	
Perceived that older adults at highest risk of COVID-19				
No	17 (11.5)	<0.001	20 (13.7)	<0.001
Yes	103 (41.4)		98 (39.7)	
Perceived that older adults required additional care during COVID-19				
No	49 (16.6)	<0.001	54 (18.4)	<0.001
Yes	71 (70.3)		64 (64.7)	
Having existing non-communicable chronic conditions				
No	71 (25.6)	0.002	85 (30.7)	0.659
Yes	49 (40.8)		33 (28.5)	

alone (43%), with memory or concentration problems (47%), communicating less frequently during the pandemic than before (43%), residing more than 30 min (walking distance) away from nearest health centre (40%), feeling lonely (43%), perceiving that older adults are at highest risk of COVID-19 (41%), required additional care (70%) and had one or more non-communicable chronic conditions (41%). Likewise,

participants' characteristics associated with significant difficulties receiving routine medical care included female sex, residing more than 30 min walking distance from nearest health centre (55%), communicating less frequently during the pandemic than before (42%), feeling lonely (41.6%) and perceiving that older adults are at highest risk of COVID-19 (40%), and required additional care (65%) (table 2).

Factors associated with difficulties in receiving medical care services

Table 3 shows the unadjusted and adjusted factors associated with difficulties in receiving medical care services. The multicollinearity among the covariates was checked and a variance inflation factor of less than five was observed for each covariate in both models, meaning that no multicollinearity was present (online supplemental annex 1). The area under the Receiver Operating Characteristic (ROC) curve of 0.85 and 0.81, respectively, in two models (online supplemental annex 2) represents good discrimination. In the adjusted model, loneliness and perceptions that older adults are at the highest risk of COVID-19 and require additional care during COVID-19 were significantly associated with perceived difficulties accessing medicines. Participants who reported loneliness (AOR 3.54, 95% CI 1.93 to 6.48) and perceived that older adults are at the highest risk of COVID-19 (AOR 3.35, 95% CI 1.61 to 6.97) had more than three times higher odds of experiencing difficulties accessing medicine than their respective counterparts. Similarly, participants perceiving that older adults required additional care during the pandemic were around seven times more likely to face difficulties accessing medicine than those who did not feel so (AOR 6.89, 95% CI 3.62 to 13.13).

Meanwhile, a separate adjusted analysis revealed that participants residing more than 30 min of walking distance from the nearest health centre had nearly four times increased odds of experiencing difficulties receiving routine medical care than those residing near (AOR 3.57, 95% CI 1.95 to 6.56). Similarly, participants who felt loneliness were more than twice more likely to have difficulties receiving routine medical care than those who did not feel so (AOR 2.20, 95% CI 1.25 to 3.87). Participants who perceived that older adults are at the highest risk of COVID-19 had nearly three times higher odds of facing difficulties in receiving routine medical care than those who did not have that concern (AOR 2.85, 95% CI 1.36 to 5.99). Also, older adults who perceived that they required additional care during the pandemic were around five times more likely to face difficulties receiving routine medical care (AOR 4.55, 95% CI 2.48 to 8.35).

DISCUSSION

This study examined the difficulties experienced by older Rohingya adults in accessing medicines and routine medical care services during the COVID-19 pandemic in Bangladesh. Overall, 30% of the participants reported difficulties accessing medicine and routine medical care during the COVID-19 pandemic. We did not find any single study on older refugees in Bangladesh and other countries to compare this finding with. However, existing studies conducted among younger Rohingya refugees in Bangladesh,¹⁹ child refugees in England,²⁹ refugees and asylum seekers in Switzerland³⁰ and Syrian refugees in Germany³¹ reported several barriers associated with refugees' access to medicine and routine healthcare,

including poor literacy of older refugees,¹⁹ language and legal barriers and travel costs.³² Furthermore, several studies indicated that limited long-term clinical care facilities for older individuals, limited/unavailability of medicines, inadequate knowledge about available services and healthcare system, inadequate 'cultural competence of the healthcare providers, age-related self-stigma and financial constraints were the primary reasons that refugees experienced difficulties in accessing medical services.^{32–36} Notably, inadequate preparedness for enhancing healthcare services, the efforts to contain the pandemic, and coronavirus-related travel restrictions impede older Rohingyas' access to healthcare during the pandemic.^{33 34} In Bangladesh, the general barriers that make healthcare facilities inaccessible during the pre-COVID and post-COVID period include a lack of healthcare system capacity, weak management and unrestrained corruption.³⁷ Thus, we believe that the combination of multiple factors hindered the participants' access to medicine and routine medical care during the COVID-19 pandemic. Therefore, the current study highlights the need to make healthcare accessible during the COVID-19 pandemic.

In our study, older Rohingya adults who felt loneliness experienced greater difficulties accessing medicine and routine medical care than those who did not feel loneliness. Refugee and displaced people often find it difficult to mix with family, friends, and community members, and feel lonely.³⁸ If such loneliness remains unresolved, it can lead to depression and anxiety.³⁹ Our study's finding broadly corroborates a study carried out among Syrian refugees in Turkey, which indicates that refugees with depression and anxiety were likely to experience difficulties accessing sufficient healthcare services.⁴⁰ Older Rohingya adults' feeling of loneliness may be due to the challenges the COVID-19 pandemic brought to refugees, including lockdowns, self-isolation/quarantine,³⁶ limited social networks, inadequate connection with family members and limited social and psychological support.^{41–43} Moreover, stigma, racism and discrimination are postulated to increase loneliness in refugees worldwide.^{36 42 44} Therefore, it is vital to strengthen the measures to improve the communication between people within the camps as well as with people beyond the camps.

Perceptions that older individuals are at a higher risk of COVID-19 infection and require additional care during the pandemic were associated with perceived difficulties accessing medicines and receiving routine medical care. These findings, to our knowledge, are novel. The association of perceived higher risk of COVID-19 with limited access to medicine and receiving routine medical care may have reverse causation—that is, access to health care makes them feel less vulnerable and less lonely. Future research should apply a longitudinal design to provide insights into the causal mechanisms underlying the relationships between perceived higher risk of COVID-19 and access to

Table 3 Factors associated with difficulties faced by older Rohingya (forcibly displaced Myanmar nationals) adults in accessing medical services amid COVID-19 pandemic in Bangladesh

	Experienced difficulties accessing medicine				Experienced difficulties receiving routine medical care			
	*COR	95% CI	†AOR	95% CI	*COR	95% CI	†AOR	95% CI
Age (year)								
60–69	1.00		Not taken in the final model		1.00		Not taken in the final model	
70–79	0.76	0.44 to 1.32			0.88	0.51 to 1.53		
≥80	0.42	0.33 to 2.31			1.06	0.42 to 2.70		
Sex								
Male	1.00		1.00		1.00		1.00	
Female	1.57	1.02 to 2.43	1.30	0.75 to 2.26	1.80	1.16 to 2.79	1.49	0.88 to 2.52
Family size								
0–4	1.00		Not taken in the final model		1.00		Not taken in the final model	
>4	1.21	0.78 to 1.88			1.09	0.70 to 1.70		
Living arrangement								
Living with other family members	1.00		1.00		1.00		Not taken in the final model	
Living alone	1.92	1.05 to 3.50	0.67	0.29 to 1.52	1.32	0.72 to 2.41		
Problem in memory or concentration								
No problem	1.00		1.00		1.00		Not taken in the final model	
Low memory or concentration	2.39	1.35 to 4.24	1.42	0.65 to 3.08	1.20	0.66 to 2.18		
Walking distance from the nearest health centre								
<30 min	1.00		1.00		1.00		1.00	
≥30 min	1.75	1.06 to 2.89	1.00	0.51 to 1.96	4.13	2.50 to 6.83	3.57	1.95 to 6.56
Frequency of communication during COVID-19								
Same as previous	1.00		1.00		1.00		1.00	
Less than previous	6.01	3.49 to 10.36	1.90	0.92 to 3.93	4.54	2.72 to 7.59	1.54	0.73 to 3.24
Feeling of loneliness								
Hardly	1.09		1.00		1.09		1.00	
Sometimes to often	2.36	1.51 to 3.70	3.54	1.93 to 6.48	2.18	1.39 to 3.42	2.20	1.25 to 3.87
Perceived that older adults at highest risk of COVID-19								
No	1.00		1.00		1.00		1.00	
Yes	5.44	3.09 to 9.56	3.35	1.61 to 6.97	4.14	2.42 to 7.08	2.85	1.36 to 5.99
Perceived that older adults required additional care during COVID-19								
No	1.00		1.00		1.00		1.00	
Yes	11.93	7.05 to 20.18	6.89	3.62 to 13.13	8.13	4.90 to 13.49	4.55	2.48 to 8.35
Having existing non-communicable chronic conditions								
No	1.00		1.00		1.00		Not taken in the final model	
Yes	2.00	1.27 to 3.15	1.26	0.66 to 2.43	0.90	0.56 to 1.45		

Continued

Table 3 Continued

Experienced difficulties accessing medicine				Experienced difficulties receiving routine medical care			
*COR	95% CI	†AOR	95% CI	*COR	95% CI	†AOR	95% CI

*Crude Odds Ratio

†Adjusted Odds Ratio

medicine and receiving routine medical care. Many factors may shape older Rohingya adults' perceived higher risk of COVID-19 and access to medicine and receiving routine medical care. Older Rohingya adults tend to get infected with the coronavirus and die from the disease more than younger individuals.^{45 46} This may be because older individuals are more likely to have a greater risk of chronic diseases, thus requiring additional care.³¹ Evidence indicates that thousands of older Rohingya adults experienced communicable and non-communicable diseases, including diabetes, liver disease, hepatitis (B and C), diarrhoea, measles, diphtheria, unexplained fever, HIV and tuberculosis.^{34 47} The experiences of these diseases, together with limited PPE and medical services (such as the absence of telehealth medical care and face-to-face consultations for medical services), may likely increase their COVID-19 risk and hinder their choices about accessing medicines and receiving routine medical care. Therefore, policy-makers need to pay more attention to targeted intervention programmes for older FDMNs, who require additional care and are at a higher risk during the COVID-19 pandemic.

Our study found that older Rohingya adults who were residing beyond 30 min walking distance of a healthcare centre had higher odds of difficulties receiving routine medical care. This finding is widely consistent with two studies conducted among ethnic minorities in Myanmar⁴⁸ and the refugees in Uganda.⁴⁹ The former study indicates that ethnic minorities residing within 5 km to the closest healthcare facilities were more likely to pay outpatient visits than those living beyond 5 km. The Ugandan study suggests that the geographical accessibility of medical care facilities for both refugees and nationals varied significantly: more nationals resided within 5 km radius of public medical facilities than refugees, thus incurring transport costs for refugees.⁴⁹ In the refugee camps in Bangladesh, there are limited routine medical care facilities located within walking distance for the Rohingya population.³⁴ Limited transportation facilities further restricted such inadequate healthcare facilities during the pandemic.⁵⁰ Moreover, the COVID-19 outbreak creates fear that going out for receiving distant medical services may risk their own and family members' health.⁴⁶ Rohingya older adults are particularly vulnerable in this regard because of their physical disabilities (eg, vision impairment and diminishing hearing capacity) in accessing routine medical care.⁵¹ Moreover, many of their diseases

go untreated due to long distance, acute financial constraints, low self-esteem, limited trust in medical care, unfriendly treatment, cultural incompetency and discrimination.^{34 52} These issues are substantiated by the findings from studies conducted among Rohingya, Chin and Kachin refugees living in Malaysia⁵³ and refugees in Uganda.⁴⁹ Thus, the current study suggests that various challenges shape older Rohingyas adults' access to medical services.

Implications for policy and practice

Our findings highlight the need of coordination between relevant stakeholders, policy-makers and development partners to undertake appropriate interventions to address the difficulties Rohingya older adults experienced in accessing medicine and routine medical services during the COVID-19 pandemic in Bangladesh. Specifically, relevant stakeholders, policy-makers and development partners need to provide distant and targeted strategies to improve the access of older refugees, who are lonely or have higher healthcare needs, to healthcare needs. Statelessness is a complex issue and requires multisectorial and collective international efforts. Given the critical role played by the Office of the Refugee Relief and Repatriation Commissioner under the Government of Bangladesh, as the key policy-maker for the Rohingya population, we believe that they will be an indispensable partner to address the barriers of the camp people in accessing medical care during this crisis. International organisations such as UNHCR, International Organisation for Migration, Concern Worldwide and Medecins Sans Frontieres are actively working at the forefront with this vulnerable population. These organisations along with local organisations such as BRAC, Society for Health Extension and Development and Social Assistance and Rehabilitation for the Physically Vulnerable could play an important role in supporting the Office of the Refugee Relief and Repatriation Commissioner in designing and implementing people centred interventions to provide continuing care.

It is also equally important that the refugee community are engaged in the camp environment in development of preparedness and responses plan to overcome the barriers that they are experiencing. This may allow the health sector and relevant stakeholders to promptly plan people centred strategies required to address the barriers that they are facing in accessing health services.⁵⁴ Engaging local community leaders can be of great value achieving meaningful community engagement, effective

communication, and prompt responses during this public health emergency and beyond.⁵⁵ Local community organisations which are aimed to improve the health of vulnerable refugee communities should facilitate community engagement through the dissemination of information and improving health literacy among the people, thereby improving their decision making capacity.⁵⁶ Community health workers (CHWs) have been strong pillars of health services in low-income and middle-income countries, including Bangladesh.⁵⁷ CHWs have been successfully mobilised to undertake different roles such as health assessment, resource linking, facilitating treatment, healthcare navigation, health education and psychosocial support.^{58 59} Hence, we believe that training females and youths from the local camps as community health workers could be an innovative approach to involve and empower the local community as well as devise socio-culturally tailored interventions.

Strength and limitations

The current study has several strengths. First, this study is unique because, to our knowledge, it is the first study that explicitly examined older Rohingya adults' difficulties accessing medical services during the COVID-19 pandemic in Bangladesh. This study adds to the small number of international literature exploring the refugees' difficulties accessing medical services during the COVID-19 pandemic. Second, the study area and population were distinctive because the Rohingya refugee camps were the biggest in the world, and Rohingya people were one of the most persecuted minorities globally.⁴³

Despite these strengths, our study's findings should be considered in the context of several limitations. First, given the restrictions around our ability to collect data, this study used purposive sampling for both the study site and participants, therefore, there is a possibility for selection bias limiting the generalisability of the findings to the entire population of Rohingya older adults in the camps. Second, our research was cross-sectional in nature. Therefore, causality cannot be established. Third, our study is limited to quantitative analysis, as we did not explore the qualitative aspects of older Rohingya adults' experience of difficulties in accessing medicines and receiving medical care during the pandemic. Additionally, data were collected using self-report and thus could be subjected to recall and social desirability bias. However, we believe the recall bias to be minimal as our questions included recall of recent events related to the enduring COVID-19 pandemic. To decrease the risk of social desirability bias, questions were structured in simple language, focused neutral in content and tone, so that the participants would feel comfortable responding truthfully.

Directions for future research

Considering the importance of the issue in the current scenario and limitations of our research, we hereby make a strong call for future research. Future research should

be focused on providing insights into the causal mechanisms underlying the relationships between perceived higher risk of COVID-19 and access to medicine and receiving routine medical care applying a longitudinal design. Another arena for further research would be exploring the experience of difficulties and the barriers/enablers related to accessing medicines and receiving medical care during the COVID-19 pandemic utilising a mixed-method approach. This will provide a better understanding of unique needs among the Rohingya older adults from their own perspectives and give voice to the most vulnerable refugee communities in the world.

CONCLUSION

Overall, we found that many Rohingya older adults reported facing difficulties accessing routine medical care and medications. It is critical to address these barriers to care as this population is at increased risk of health and economic implications from COVID-19, and often requires routine medical support. Key factors influencing access were distance to healthcare facilities, loneliness and perceived vulnerability of older people (risk of COVID-19 and need for care). Strategies need to not only improve the availability of healthcare but also address the vulnerable psychological state of older people. Policymakers, healthcare practitioners and local stakeholders should immediately revise the emergency preparedness plan to incorporate strategies to address the gaps in access to routine medical services for older people in the camps. The current study also advocates a strong call for future research aimed to examine the experience of difficulties and the barriers/enablers related to accessing medicines and receiving medical care during the COVID-19 pandemic among the older Rohingya adults using a mixed-method approach.

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