Mental Health Research Among Refugees: A Community-based Study in Turkey

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Abstract

Background: Turkey hosts nearly four million refugees and more than 95 percent live in urban areas. Living in urban settings pose different challenges and opportunities than living in camps. This study aimed to assess mental health problems and barriers to accessing mental health care among Syrian refugees in urban areas of Turkey. The study used a mixed-methods approach. Quantitative data were collected by a face-to-face survey among 420 Syrian refugees in Ankara, whereas qualitative data were collected via in-depth interviews with 10 health care providers and 10 health policy makers.

Discussion: In our case, the main challenges in conducting research with refugees were collecting data from a highly traumatized population, difficulties with contacting undocumented asylum seekers including trust issues and the fear of deportation, the risk of secondary traumatization among data collectors, and the bureaucracy during study approval processes. Targeting a representative sample was not feasible, because of the lack of publicly available demographic data on a district level, presence of undocumented asylum seekers and high mobility among the registered refugees. Although respondents with significant psychological symptoms were routinely referred to available mental health services, we were not able to do the same for unregistered refugees with problems in accessing health care. Language/alphabet differences and differing dialects of Arabic posed another challenge in both translation and administration of the scales. Based on cultural characteristics, a gender-balanced team was used and the interviewers were gender-matched whenever needed. Also, the research team had to work after work hours and during weekends to be able to interview male refugees, since most refugee men were at work during working hours and most days of the week.

Conclusions: The research team's experience showed that population characteristics including level of trauma, language, culture, gender, legal status, mobility, availability of publicly available data, and outreach-related barriers increased the challenges and ethical responsibilities of the researchers as well the research costs in terms of time, human resources and finance. Even in a host country with geographical, religious and cultural proximity to the refugees, profound challenges exist in conducting mental health research.

Background

Humanitarian Context

The UN Refugee Agency (UNHCR) data showed that as of June 2019, there were over 5.6 million refugees who fled Syria because of the ongoing war [1]. Refugees from war-torn countries have multiple risks because they face additional problems in the host country due to loss of support systems and difficulties in accessing services, in addition to the direct effects of war-related traumas in the home country [2,3]. Refugees, who are among the most vulnerable populations, typically experience loss of close ones, are exposed to violence and killings, and/or live in constant threat of being killed, tortured or imprisoned [2,3]. They usually lose social support systems and face challenges with respect to healthy living conditions,

access to health care, social care, education and employment opportunities in the host country [4]. Studies show that refugees are highly traumatized and mental health problems are common, with post-traumatic stress disorder (PTSD) and depression being especially prevalent [3-6,7]. According to literature, living in urban settings pose different challenges and opportunities for refugees when compared to living in camps [8].

Turkey hosts nearly four million refugees and more than 95 percent live in urban areas [1,9]. Literature reviews showed that most of the previous mental health research in the country reflected camp settings with comparatively better organization of services including health care [2,7,10], and studies about mental health status and/or access to mental health services for those living in urban areas were scarce. Those few studies that were conducted in urban areas were in cities close to the Turkey-Syria border, which shared some common characteristics with conflict zones when compared to the cities in other parts of the country (e.g. sounds of aircrafts and bombings across the border, occasional firing of mortar bombs, etc., which might have reminded previous traumas) [11,12].

Therefore, more scientific evidence was needed to better inform future policies on mental health and mental health care for urban refugee populations. The present study aimed to assess mental health problems (i.e. depression and post-traumatic stress disorder) and barriers to accessing mental health care among Syrian refugees in an urban setting in Turkey.

Research Study

The study used a mixed-methods approach and took place in Ankara, the capital of Turkey, in 2016. Quantitative data were collected by a face-to-face survey among Syrian refugees, by a team of specially trained, bilingual (Turkish-Arabic) university graduate interviewers. The assessment batch included Harvard Trauma Questionnaire (HTQ), Beck Depression Inventory (BDE), in addition to items on socio-demographics, perceived mental health needs, and access to mental health services.

The HTQ was developed by the Harvard Program in Refugee Trauma and the Indochinese Psychiatry Clinic as a cross-cultural, clinician-administered instrument to assess trauma and torture related to mass violence and their psychological impacts. The Arabic version of the scale was validated among Iraqi refugees in the USA by Shoeb et al. [13]. The internal consistency of the HTQ in Arabic was reported as 0.84 by Kleijn et al.[14]. The Beck Depression Inventory (BDI) (Beck et al., 1961) is a widely used, 21-item, self-report questionnaire that measures depressive symptomatology for the last week [15]. Validity and reliability in Arabic were established by West (1985) and Abdel-Khalek (1998). The coefficient alpha ranged between 0.67 and 0.89 for different countries. Internal consistencies for HTQ and BDE in the current study were 0.82 and 0.85, respectively [16, 17].

During quantitative data collection, a total of 420 adult refugees from 229 households located in formal settlements in Ankara were surveyed using snowball sampling method. For all refugees, Turkey was the first settlement after Syria. Some of them temporarily stayed in camps or in other cities in Turkey before moving to Ankara.

Qualitative data were collected via in-depth interviews with 10 health care providers and 10 health policy makers, who had direct experience working for refugees or refugee health policies in Turkey. The service providers interviewed were five primary care physicians, two midwives and two nurses working in Migrant Health Centers at the primary care level, and a psychiatrist working at a tertiary level public hospital in Ankara. Five of the policymakers interviewed were working at the central level (Ministry of Health), and five of them were working at the provincial level (Ankara Provincial Directorate of Public Health). For qualitative data analysis, the audio recordings of the interviews were transcribed, after which a content analysis was carried out involving identification of themes and sub-themes.

The study was supported by Hacettepe University Scientific Research Projects Coordination Unit. Ethical approval was obtained from the Ethics Commission of Hacettepe University and institutional approvals from the Ministry of Interior, Department General of Migration Management and the Ministry of Health to work with Syrian refugees and health professionals, respectively.

The present study showed that the community-based study group was highly traumatized: 88.8% reported having witnessed war or armed conflict, 44.0% reported having lost a family member; and 31.1% reported having witnessed a killing. The prevalence of probable PTSD (post-traumatic stress disorder) and depression were found to be 36.5% and 47.7%, respectively. Among the refugees who needed mental health care, only 9.7% were found to have used mental health services. The most common barriers to mental health care were language problems and lack of knowledge about existing services. From the service providers' and policy makers' point of view, the reasons for low utilization of mental health services were refugees' higher prioritization of daily life challenges and physical health problems and their low level of awareness on available services [18-21].

Discussion

Scientific importance of research

Forced displacement is currently one of the most important global challenges. UNHCR data show that over 70 million people are forced to leave their homes due to conflict, war, or oppression. Out of all forced displacements, the number of refugees has risen to a record high of nearly 26 million in the world [22], where the negative effects of wars on civilian populations are already well-known [2,3].

One of the most important public health priorities for international organizations, academia and governments is to detect those who are most vulnerable to the effects of war and resulting forced displacement. It is also of utmost urgency to assess and follow-up refugees' mental health problems and barriers in accessing health care in host countries, so that evidence-based policymaking and needs-based service provision can be possible.

The results of this study will likely inform the public health authorities, humanitarian and non-governmental organizations in Turkey on how to allocate resources in terms of best management for the mental health problems of refugees in urban settings. Our most interesting finding was that mental

disorder rates in urban settings were similar to those found in studies conducted in camps. It is expected that refugees who settled in a large city such as Ankara, rich with opportunities and away from the reminders of the war, should show lower rates of psychopathology. In addition, our study was done much later than the studies done in camps; a decline in mental disorder rates would be expected. This finding points to the need to examine social determinants of mental health and other factors that the refugees go through in the host community in urban settings, which either create new mental problems or prevent the resolution of the existing war-related ones. Through assessments such as the ones used in the present study, it is also possible to learn about resilience to the effects of war. Another potential finding, which may have broader implications, will come from the comparison of the effects of direct exposure to war trauma versus the effects of negative life events imposed by the difficulties during forced displacement and during the adaptation process in the host country. It is generally accepted that war trauma relates more strongly to PTSD, whereas negative life events show stronger correlations with depression. We are in the process of analyzing our data and comparing the effects of two types of events in our respondents.

Although Syrian refugees have been in Turkey since 2011 and the number of refugees has been increasing each year, there were very few studies addressing the mental health status and needs of refugees in urban settings in Turkey. Many studies in other regions of the world have reported low rates of use of mental health services and the common reasons for this were language and cultural barriers, financial constraints, discrimination, negative attitudes of healthcare personnel, and lack of information on how and where to obtain healthcare services [23-28]; the present study also revealed similar findings.

Most of the previous studies conducted in Turkey were limited, because they collected data from camp residents. The current study has overcome those limitations by selecting a community-based urban sample and assessing health services use, in addition to the rates of mental disorders. On another note, the study was conducted in the capital of Turkey, where the health care service provision is expected to be better than most other cities in Turkey.

Nevertheless, this study also has some limitations. First, we did not use a clinical interview, which would make it possible to reach definitive medical diagnoses. On the other hand, our interviewers administered the batch including self-administered scales as an interview, mainly because the education level of the sample was low. Another limitation of the study was that the HTQ version we used assessed DSM-IV (Diagnostic and Statistical Manual of Mental Disorders-IV) PTSD instead of DSM-5; this was because a valid and reliable instrument calibrated for DSM-5 was not available at the time of our study. The research team used a quantitative approach to collect data from refugees and a qualitative approach for service providers and decision makers. Although adding a qualitative approach could help with more in-depth data collection from refugees, collecting data in a visual or audio format was not allowed by authorities at the time of the study. Second, our main aim was to administer validated mental health scales in addition to assessing sociodemographic features and services use. The batch including the scales and the questionnaire was already too long and it could be very difficult to have additional qualitative interviews. We therefore decided to use a quantitative approach for refugees and a qualitative approach for service providers and decision makers.

Although we tried to obtain a representative sample, population sizes and distributions according to different neighborhoods were not available and our sample was not random. We had to use snowball sampling to reach respondents and therefore cannot generalize our findings to Syrian refugees in Turkey. We included all adults in the contacted households instead of choosing a random respondent, which may have created a bias in terms of prevalence of mental problems. On the other hand, each household usually had more than one family, sometimes going up to three or four families per household, which may have decreased the aforementioned bias. Despite training of data collectors by senior researchers for data collection to be standardized, there might still be interviewer bias encountered during actual field work.

The present study adds to the literature with its mixed-method approach when assessing services use, which made it possible to learn different points of views from refugees, health authorities and health service providers in a multidimensional manner. The research team disseminated the main findings to a variety of audiences including academia (via conference presentations and scientific publications), public sector, and national and international non-governmental organizations (NGOs and INGOs) (via presentations in health policy-oriented meetings). Our main aim in disseminating the findings was to inform future mental health policy-making and service provision in Turkey, in addition to advocate for increased efforts to promote refugee mental health by a multi-sectoral approach, including targeted interventions to improve social determinants of mental health [23-27].

Challenges faced by researchers

Working with a highly traumatized population: The high prevalence of past and present traumas required better communication skills and resolution of trust issues between the respondents and the interviewers. The interviews lasted longer for those with higher levels of trauma and sometimes caused interviewers to be emotionally affected. At those times, the interviews were supported by senior researchers to decrease the risk of secondary traumatization.

Legal status, lack of data, and high mobility of refugees: Obtaining an appropriate sample to study was problematic and targeting a representative sample was not feasible, because of lack of neighborhood-specific data, the presence of undocumented asylum seekers and high mobility among the registered refugee community. According to official estimates at the time of the study, there were 88.000 Syrian refugees living in Ankara. Since there has been a high mobility among the refugees in Turkey, it was not possible to exactly locate the neighborhoods they lived in. Two neighborhoods, known to be densely populated by Syrian refugees, were targeted for the study. At the time of the study, demographic data were not available at a district level and the research team didn't know how many Syrians lived in those neighborhoods, because of the lack of publicly available data and the presence of unregistered asylum seekers.

Safety issues and willingness to participate: Presence of unregistered asylum seekers also led to problems with willingness to participate, since undocumented or unregistered migrants tend to avoid non-essential contact with professionals in host countries because of the fear of deportation. Although non-

response rate was very low, some refugees and asylum seekers did not want to participate in the study because of safety concerns and potential research fatigue. Despite numerous measures taken by the research team to increase trust and response rate (training of data collectors, use of name badges, using a peer approach during snowball sampling etc.), 15 households refused to participate in the study and no information could be gathered about their demographic or other characteristics, which could have been different than the study population.

Referral for Services: An additional challenge encountered was related to limited health care access for unregistered asylum seekers. Although respondents with significant psychological symptoms were routinely referred to available mental health services, the research team was not able to do the same for undocumented people, since they did not have free health care coverage and needed other means of support such as psychosocial support delivered by NGOs.

Cultural Barriers: The research team also experienced some cultural and gender-related challenges. For instance, women were reluctant to be interviewed by a male interviewer and it was not easy to find men at home during working hours, as most men were at work during daytime. To avoid bias, necessary measures were taken to end up with a gender-balanced sample (see below).

Resentment from Host Communities: The two neighborhoods where the study was conducted were among the most disadvantaged ones in Ankara and were also home to other (Afghan, Somali) refugees, as well as low-income Turkish families. There was visible animosity towards Syrian refugees by others, fueled by anti-immigrant propaganda (“they are taking up our jobs”, “they receive money from the government, etc.”). This factor did not prevent the research efforts, but may have diminished motivation of others in helping the interviewers find refugees and houses to include in the study.

Language: Language was another important challenge for this specific study topic and the population, since mental health care generally requires more linguistic competence both on the patient and provider side. During the interviews, almost all respondents mentioned the language problem as the main reason for low contact with mental health services. A similar challenge existed for the researchers. First of all, none of the researchers spoke Arabic and most adult refugees did not speak Turkish. The different alphabet (Latin) used in Turkey added to the language barrier. Plus, most of the refugees had very low educational attainment. These factors created several difficulties in conducting the current study. First, the available options for choosing the study measures were limited. The research team had difficulty in finding appropriate depression and PTSD scales validated in Arabic language, mainly because no one in the team could follow the literature in Arabic. Second, bilingual field staff had to be employed in order to translate sociodemographic form (in Turkish) into Arabic. Differing dialects of Arabic posed another challenge in both translation and administration of the scales. Since most of the refugees had low education, self-report questionnaire items needed to be read out and recorded, which led to longer interview durations. Finally, recruiting bilingual and educated interviewers was very difficult.

Strategies used to address the challenges

Training of Data Collectors: Mental health research requires data collection on sensitive issues and data collectors need special communication skills or structured trainings to be able to collect good-quality data and to avoid any conflicts, bias or ethical problems during data collection in the field. Training for mental health research is also necessary to decrease the risk of secondary traumatization among the data collectors. In the present study, strict criteria were set for recruitment of interviewers and standard training sessions were organized before data collection. In parallel to the previously set criteria by the research team, all interviewers had a health science background, had good communication skills, and they were residing in Turkey for at least four years prior to the study. The interviewers were recruited in a two-steps approach; i) an outreach email sent via the e-mail list server of the university, ii) face-to-face interviews with suitable applicants.

Sampling Methodology: The initial approach was to use a probability sampling method to ensure a representative sample for the target group. However, discussions with local authorities showed that this was not feasible due to numerous external factors including lack of publicly available data on a district level, the presence of unregistered asylum seekers and the high mobility among the registered refugee population. The research team therefore decided to work in two neighborhoods, known to be densely populated with refugees and use a snowball sampling technique to be able to reach out to the specific target group, avoiding unnecessary contact with other migrants and non-migrant households.

Cultural Considerations and Gender-Sensitive Approach: Data collection procedure had some cultural and gender-related challenges. For example, women were reluctant to be interviewed by a male interviewer and it was not easy to find men at home during daytime and most days of the week. Therefore, the interviewer team was composed of both genders, and the interviews were conducted with a same-sex interview approach. Also, the field team had to work during several nights and weekends to be able to interview more men and have a gender-balanced sample at the end. Within the mixed model approach, we interviewed several members of health authority and health care staff providing care to the refugees. Those interviews helped us understand the most pressing health care needs of the refugees. Before we started data collection, we interviewed several refugees as part of a pilot study to better understand the context and to finalize the questionnaire. Finally, some of our interviewers themselves were refugees, who greatly contributed to our understanding of the population specific needs and increased the quality of our data collection and analysis.

Safety Considerations: Lastly, several measures were taken to ensure safety of the respondents and the interviewers during household visits and night shifts. First, one of the senior researchers always accompanied and supervised the field team during data collection. Second, all interviewers had clearly visible identification badges with the university logo and carried ethical and institutional approval papers with them at all times. In addition, a WhatsApp group was formed among the field team for better coordination and increased security during data collection. By using digital technologies, the interviewers were able to e-communicate, geolocate themselves and update their location during the household visits.

Conclusion

Less is known about the mental health status of refugees living in urban settings when compared to camps. This might be partly due to the challenges of working with community-based refugee populations in host countries. The research team's experience showed that population characteristics including level of trauma, language, culture, gender, legal status, mobility, accessibility of publicly available data, and outreach-related barriers increased the challenges and ethical responsibilities of the researchers as well the research costs in terms of time, human resources and finance. Even in a host country with geographical, religious and cultural proximity to the refugees, profound challenges exist in conducting mental health research.

The current study once more showed that research studies with refugees, especially research on mental health topics have their own characteristics and challenges. In order to overcome some of the barriers, it is of utmost importance to use participatory research approaches and involve refugees in the research process beginning from the planning stage of the studies. Contacting local authorities and organizations working with/for refugees during planning stage can also help researchers understand the specific context and study population including cultural, social, educational and socioeconomic characteristics.

Abbreviations

UNHCR: United Nations High Commissioner for Refugees

PTSD: Post-Traumatic Stress Disorder

HTQ: Harvard Trauma Questionnaire

BDE: Beck Depression Inventory

DSM: Diagnostic and Statistical Manual of Mental Disorders

NGOs: Non-Governmental Organizations

Declarations

Ethics approval and consent to participate: The study was approved by the Ethics Commission of Hacettepe University in Ankara. All participants were informed about the study and their consent was taken before data collection.

Consent for publication: Not applicable

Availability of data and materials: The datasets used and/or analyzed during the current study are available from the corresponding author on reasonable request.

Competing interests: The authors declare that they have no competing interests.

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Authors' contributions: All authors worked together to design the study, get ethical/ institutional approval and prepare the sociodemographic form. OKC, EK, and SU prepared qualitative interview guides. CK and EK prepared mental health assessment section. EK and CK worked on training interviewers and contributed to data collection in the field. All authors analyzed and interpreted the data. All authors contributed to the manuscript writing, read and approved the final manuscript.

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