**Perspective**

**Health challenges in refugee resettlement: an innovative multi-sector partnership to improve the continuum of care for resettled refugees**

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**Introduction**

Refugee resettlement is a highly complex process that may hold lessons for the larger realm of migration medicine.1 As more and more people are displaced by war, climate change, political strife and economic disparities, migration medicine is becoming an increasingly important component of travel medicine.2 A recent partnership between the International Organization for Migration/United Nations Agency for Migration (IOM), the US Centers for Disease Control and Prevention (CDC), the University of Minnesota (UMN) and other Minnesota-based organizations has evolved to address the medical needs of migrating refugees, particularly those with complex health needs. The goal of the partnership is to improve a fractured health system during the migration process and to build the capacity of IOM and US-based refugee clinicians to improve the continuum of care delivered to refugees. In this article, we describe our experience with this partnership, which may hold lessons for others developing programmes to improve the health of displaced populations during their migration journey.

**Unique Considerations and Challenges for Health Care Management During Resettlement**

Although many refugees are young, healthy and productive, some will have serious health conditions that can complicate their resettlement. For US-bound refugees, the initial resettlement medical examinations conducted by IOM may be the first comprehensive medical evaluation they have experienced. It is common for refugees to have newly identified health conditions, or conditions recognized but not managed. It is imperative for IOM clinicians to identify health conditions prior to resettlement can facilitate appropriate services and preparation...
by the sponsoring agency and community. This examination can be challenging with the limited time and scope required. Making this even more challenging is that refugees may have a distrust of officials based on past experiences. Adding to this mistrust is the fact that refugees are aware that, when travelling to the USA as a family or group, identification of a serious health condition may delay the entire group. Any delay may permanently jeopardize resettlement. Therefore, there may be fear or mistrust of any person with the authority to delay or cancel their resettlement, including those providing their clinical care. This reality challenges the clinical encounter since patient trust is the cornerstone to obtaining a thorough and accurate medical history and soliciting important current complaints. Additional challenges include language barriers, lack of recall or missing medical history documentation, varying cultural understanding of health and disease and limited access to screening and diagnostic tools. Finally, the overall complexity of the migration process may inhibit effective communication of health information across providers.

Partnership History and Overview

The partnership began in 2012 when the UMN, Minnesota Department of Health (MDH) and IOM initiated an informal exchange programme. UMN medical residents and physicians performed short international rotations with IOM to understand the pre-departure process. In return, IOM clinicians visited Minnesota to understand the post-arrival process. The partnership was formalized and received funding in 2017 and activities have expanded significantly. The activities undertaken are at the request of the stakeholders and driven by needs identified by IOM.

Formal Clinical Training Opportunities

A cornerstone of the partnership is in-person formal trainings. For example, a physical examination curriculum has been developed for physicians. IOM employs physicians trained across the world, leading to a wide array of physical examination techniques, styles and skills. The goal of this component of the programme is to standardize and strengthen physical examination, improve patient communication skills across cultures and address areas of particular needs (e.g. paediatric training). The programme uses a train-the-trainer model whereby UMN faculty work with IOM ‘master trainers’ to build their examination skills, training techniques and teaching and feedback skills. UMN faculty have also partnered with IOM nurses for in-person trainings that have focused on strengthening and standardizing clinical assessment skill sets relevant to the health assessment conducted immediately prior to refugee departure. To support the leadership development of IOM nurses, additional sessions focused on mentorship, feedback and debriefing were developed with input from with IOM nurse leaders.

Other workshops and trainings have been conducted with both physicians and nurses in attendance to promote an interprofessional environment. Workshop topics include aviation medicine, dermatology, haematology, paediatric neurology, patient rapport, interprofessional communication and working with interpreters. Another area of interprofessional training is a course in Comprehensive Advanced Life Support (CALS). The CALS curriculum has been modified for unique situations that may be encountered by IOM such as health emergencies during travel (e.g. advanced life support skills to address an emergency in an aircraft cabin).

Exchanges and Networking of Health Professionals

Minnesota hosts IOM staff to learn firsthand about domestic resettlement through visits to UMN, MDH and state and county public health programmes, shadowing of domestic refugee clinics, and meetings with former refugees through community-based organizations. One of the most important aspects of the programme is relationship building between the IOM and their domestic counterparts. Frequently providers are unclear of processes that occur, including the limitations and difficulties that the ‘other side’ faces. These face-to-face meetings allow questions to be answered, exchange of knowledge and best practices and creation of networks that provide for clearer communication and improved care. Visiting US facilities supports IOM clinicians to understand the services provided and the challenges refugees may face and better prepare refugees for the resettlement process.

Co-management of Refugees with Complex Health Conditions

The partnership also facilitates support in diagnosing, managing or planning travel for refugees with complex medical needs. A unique and challenging aspect of the clinical care of refugees resettling to the USA is management of health during the actual movement period, including long-haul flights. Experts with experience working in varied and austere environments provide specialized advice for IOM clinicians regarding challenging patients. These consults help optimize the health of refugees before departure, minimize risk during travel and facilitate timely follow-up upon arrival.

In addition, UMN and partners contribute to the development of Standard Operating Procedures (SOPs) that IOM generates for their clinicians to guide the care of specific conditions before and during US resettlement. SOPs include topics frequently encountered by IOM such as sickle cell disease management; scabies detection, management and control; as well as diagnosis and management of splenomegaly.

Improving the Overall Continuum of Care for Refugees

Partnership activities are designed to improve the health of US-bound refugees by focusing on various points in the continuum of care. Every patient and patient population needs tailored, comprehensive health advice and services along the continuum. Take, for example, a child with scabies and anaemia. With a standard approach to physical examination, the clinicians performing pre-departure medical examinations may be more likely to identify subtle signs of scabies and the cause of underlying anaemia to be sickle cell disease. The SOPs for scabies can guide the treatment and the SOP for sickle cell disease can assist in the management, including preparation for travel. If a question
arises, such as if they are unable to get the haemoglobin to a threshold safe for flight, the IOM clinician can solicit advice from UMN and other partner specialists. Further, if any of the IOM staff has visited the USA, they may be able to facilitate more appropriate follow-up and counsel the family regarding what to expect after arrival. The receiving physician in the USA, if they have participated in the partnership, will have a better understanding of the pre-departure management and the IOM documentation.

Lessons Learned
Migration health—by its nature—is fractured. It involves multiple providers seeing the same patient during their migration journey—often with incomplete information. Although our programme currently focuses on refugees resettled through the US Refugee Resettlement Programme, we believe this model holds lessons for working with displaced populations in other settings. First, points of contact during migration represent opportunities to improve the health of the individual. Second, although IOM’s needs drive the relationship and activities, there are mutual benefits to US health professionals and systems that provide care to refugees. The networking and bilateral learning experiences are invaluable for all health care professionals and systems along the resettlement continuum. Third, the partnership has been designed to be highly collaborative. All partnership outputs have been developed through an iterative process that leverages the expertise of both IOM and Minnesota partners, with the help of CDC and other subject matter experts. This process has generated mutual ownership, respect and understanding. Fourth, the partnership supports development of critical interpersonal and interprofessional skills. These include leadership skills, workplace communication and feedback. Finally, the partnership has been designed to be sustainable and to build the capacity of IOM staff to engage in workforce development themselves.

Impact of the COVID Pandemic on the Partnership
The outbreak of coronavirus disease 2019 (COVID-19) is impacting individuals and organizations in an unprecedented way. Our partnership is no exception. Given that many of our activities previously relied on travel and face-to-face interaction, we are facing challenges shared by many around the world. In light of the logistical and operational challenges posed by COVID-19, our partners are working quickly to adapt our activities. For example, we are quickly shifting training activities to live, online platforms that use creative and innovative approaches to maintain the quality of learning and collaboration.

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Author Contributions
E.M.M, W.M.S. and A.P.J.O. led initial concept, design and draft. E.M.M., W.M.S., A.K., C.Y., A.P.J.O. and S.H. provided substantial contribution to writing. B.M., E.A.E, M.W., H.M., M.M., S.P. and S.J.D. participated in revising for important intellectual information.

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Conflicts of Interest
None declared.

Disclaimer
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