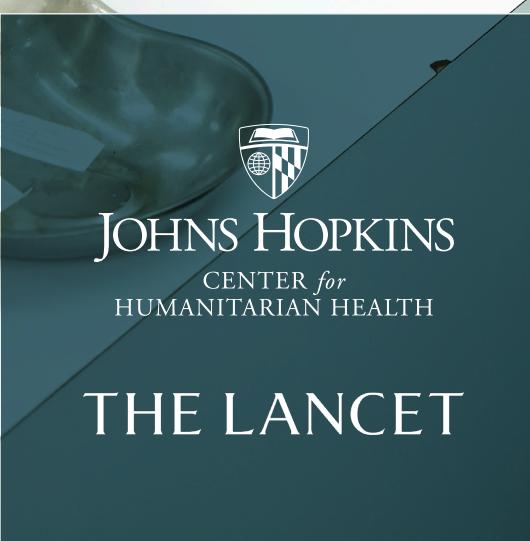




Nº 5, First Quarter 2019



  
**JOHNS HOPKINS**  
CENTER for  
HUMANITARIAN HEALTH



## WELCOME

to the *Humanitarian Health Digest*—a quarterly bibliography of published peer-reviewed journal articles on humanitarian health. The *Digest* is compiled by the Johns Hopkins Center for Humanitarian Health and *The Lancet*. It includes one or two new commentaries on peer-reviewed articles cited in the *Digest*.

The objective of the *Digest* is to provide links to peer-reviewed articles on humanitarian health from a wide variety of journals in one place for ease of reference. Peer-reviewed articles will be searched systematically using the PubMed and Global Health (OVID) databases. Articles will mostly include primary research and systematic reviews. Humanitarian health will be divided into three broad categories: 1. Conflict and Forced Displacement; 2. Natural Disasters; and 3. Technological Disasters. The articles will be further divided into low- and middle-income countries and high-income countries.

Under each of these two sub-categories, articles will be subdivided into the following public health-related categories:

- I. COMMUNICABLE DISEASE**
- II. NON-COMMUNICABLE DISEASE**
- III. REPRODUCTIVE, MATERNAL, NEWBORN, CHILD AND ADOLESCENT HEALTH**
- IV. NUTRITION AND FOOD SECURITY**
- V. WATER, SANITATION AND HYGIENE (WASH)**
- VI. MENTAL HEALTH, PSYCHOSOCIAL ISSUES, AND SUBSTANCE ABUSE**
- VII. HEALTH SYSTEMS**
- VIII. MULTI-CATEGORY**

All featured articles from the Lancet family of journals will be free to read with registration on TheLancet.com. It is the Center for Humanitarian Health's goal that other journals will follow suit to allow all peer-reviewed articles to be free to read so that humanitarian workers worldwide can learn from and apply lessons learned and conclusions immediately in the field to benefit persons affected by conflict, natural disasters and technological disasters.

We hope that you will learn and benefit from the articles presented in the *Humanitarian Health Digest*.

**Paul Spiegel MD, MPH**  
Director of the Center for  
Humanitarian Health

**Richard Horton FRCP, FMedSci**  
Editor-in-Chief of *The Lancet*

## COMMENT I.

## Responding to Ebola in a protracted crisis

by Chiara Altare, PhD, Assistant Scientist, Center for Humanitarian Health,  
Johns Hopkins Bloomberg School of Public Health



<https://www.flickr.com/photos/monusco/42684940960>

The ongoing Ebola outbreak in North Kivu and Ituri provinces, Democratic Republic of Congo (DRC) is the second worst in history, with 1439 cases as of April 27, 2019, resulting in 931 deaths.<sup>1</sup> The recent spike in the number of reported cases sparked widespread alarm, but did not yet lead to the declaration of Public Health Emergency of International Concern or PHEIC.<sup>2</sup> While the outbreak did not cross any international border, thus far, it occurs in an active conflict zone that has been ravaged by insecurity for the last two decades.

Responding to outbreaks in conflict affected areas requires extensive understanding of local powers, community dynamics and history, besides specialized medical and technical expertise. Decades of violence and mistrust of institutions shape the way communities perceive the severity of a given problem, value life and death, and gauge the authenticity of an action. As naïve as it might sound, an outbreak response can only be as effective as it is sensitive and adapted to the local context. In fact, medical innovation without social traction will not deliver the expected results.<sup>3</sup>

In this quarter's *Humanitarian Health Digest*, Vink and colleagues<sup>4</sup> report on the role of trust and misinformation on individual preventive behaviors during the initial phase of the Ebola outbreak in North Kivu. They interviewed approximately thousand people in the cities of Beni, the epicenter of the outbreak at the time, and Butembo, initially little affected, but one of the main hotspots as I write this commentary. Overall, they found a low level of trust in governmental institutions and widespread belief in misinformation about Ebola Virus Disease.

While this might seem predictable given the historical hostility of this part of the country vis-à-vis the central government, what carries more operational implications for the current outbreak response is the impact of trust on individual behavior. Their findings show that individuals are more likely to follow preventive behaviors when they trust the government and its capacity to tackle the Ebola outbreak, as well as when they trust the health work force. Study participants reported having reduced contact with suspected cases, avoiding social gatherings and public spaces,

and washing hands more frequently with increasing levels of trust. The authors also found that individual's level of information is affected by the level of trust. People with lower trust tend to be less informed about Ebola and more likely to believe in rumors or misinformation, which resulted in lower adherence to protective behaviors.

Recognized as an essential element of effective public health interventions, trust is playing a pivotal role in the level of success of the current Ebola response in DRC. Yet, how to build and maintain trust in a humanitarian setting remains a significant challenge. Possible ways forward include: working through local actors and existing mechanisms that have knowledge of the context and an established presence in the area; addressing community's needs that go beyond Ebola prevention; and finally, safeguarding the humanitarian principles of neutrality and independence to reduce the politicization of the response.

These recommendations are certainly easier said than done. Yet, the stakes are high and efforts in this direction should continue.

## COMMENT II.

## Diabetes: an overlooked crisis in humanitarian settings

by Márcia Costa, PhD, Assistant Editor, *The Lancet*

The global non-communicable diseases (NCDs) burden is increasing quickly, particularly in low-income and middle-income countries (LMICs). For many years, NCDs have often been deprioritised in crises settings, with humanitarians often focusing on maternal and child health and infectious diseases. But, with ageing population, worsening climate change, protracted crises on the rise, and funding drives increasingly falling short of their objectives, the need for humanitarians to integrate and account for NCDs in humanitarian settings is becoming more pressing.

Diabetes in humanitarian crises, a series led by Sylvia Kehlenbrink and Phillipa Boulle published online on March 13 in *The Lancet Diabetes and Endocrinology*,<sup>1</sup> is featured in this quarter's Digest. Diabetes is particularly difficult to manage in humanitarian settings because food insecurity can compromise its treatment and it is often associated with other comorbidities. This Series reviews the evidence and expert opinion on diabetes management in humanitarian settings, discussing disease burden and challenges to diagnostics and care access. Moreover, the authors reflect on the need for allocated funding and advocate for

coordinated efforts among agencies to improve diabetes management.

This Series highlights the paucity of good-quality data on diabetes burden and interventions, not only in humanitarian settings, but in LMICs in general. Accurate baseline data are crucial to place diabetes in the priority list of humanitarian organisations, but also to ensure that stockpiling of diagnostic tools and drugs is fit for purpose. Evidence-based interventions could save even more lives if they were customised to treat diabetic comorbidities. Failing to communicate the impact of diabetes in LMICs is an impediment to the drive of political will, patient advocacy, and, consequently, funding.

Challenges obstructing delivery of care are also investigated in the Series. The authors suggest that agencies need to be better prepared for disruption in diagnostics and insulin supply and guarantee that interventions and storage systems are in place. To enhance access to affordable insulin in these settings, more negotiation is needed among donors, pharmaceutical companies, and governments. Diabetes also requires a continuum of care, which is very challenging for people who have been forcibly displaced. The authors

discuss mobile health, which allows provision of health-care support and interventions through mobile technology, as a potential solution; much of the population affected by humanitarian crises now have access to mobile phones and smart devices, an untapped resource for medical intervention. Patients, local doctors, and communities should also be educated in best practice, for instance in the use of insulin—in many LMICs, insulin is still delivered at secondary or tertiary levels, which will not be sustainable in a crisis setting. Interventions for diabetes management should be flexible, adaptable, and cost-effective to overcome the challenges of accessing care during crisis.

Diabetes—and NCDs in general—have been under-represented in the debate for health interventions in humanitarian settings, and, although awareness is growing among the community, this Series should act as a wake-up call. Humanitarian organisations need to increase the pace to prioritise these diseases and make sure no one is left behind. For better resilience, NCDs and humanitarian crises need to be accounted for in countries' health planning and infrastructure. Featuring



<https://www.worlddiabetesfoundation.org/projects/west-bank-and-gaza-wdf14-898>

▲ A nutritionist working with the UNRWA Health Programme teaches Palestine refugees about healthy lifestyle practices to prevent diabetes (Photograph courtesy of the World Diabetes Foundation).

care for NCDs in humanitarian settings high on the agenda of the upcoming UN Universal Health Care High-Level meeting would be a good way to move

the discussion forward. Honest debate can give voice and improve the lives of those who are, ultimately, the main actors in these settings: patients.

## REFERENCES TO COMMENTS

- I.** <sup>1</sup> Ministère de Santé R. EBOLA RDC—Situation épidémiologique dans les provinces du Nord Kivu et de l'Ituri. 2019. [https://mailchi.mp/sante.gouv.cd/ebola\\_kivu\\_28avr19](https://mailchi.mp/sante.gouv.cd/ebola_kivu_28avr19) (accessed April 29, 2019).
- <sup>2</sup> World Health Organization. Statement on the meeting of the International Health Regulations Emergency Committee for Ebola virus disease in the Democratic Republic of the Congo on 12th April 2019. Geneva: WHO.
- <sup>3</sup> Nguyen V-K. An epidemic of suspicion—Ebola and violence in the DRC. *N Engl J Med* 2019; **380**: 1298–99. <http://www.nejm.org/doi/10.1056/NEJMp1902682> (accessed April 15, 2019).
- <sup>4</sup> Vinck P, Pham PN, Bindu KK, Bedford J, Nilles EJ. Institutional trust and misinformation in the response to the 2018–19 Ebola outbreak in North Kivu, DR Congo: a population-based survey. *Lancet Infect Dis* 2019; published online March 27, 2019. <https://www.sciencedirect.com/science/article/pii/S1473309919300635?via%3Dihub> (accessed April 15, 2019).
- II.** <sup>1</sup> Boule P, Kehlenbrink S, Smith J, Beran D, Jobanputra K. Challenges associated with providing diabetes care in humanitarian settings. *Lancet Diabetes Endocrinol* 2019; S2213-8587(19)30083-X. doi:10.1016/S2213-8587(19)30083-X.  
<https://www.ncbi.nlm.nih.gov/pubmed/30878269>

---

## BIBLIOGRAPHY

---

### Conflict and Forced Displacement

#### I. COMMUNICABLE DISEASE

##### LOW- AND MIDDLE-INCOME COUNTRIES

Gostin L, Phelan A, Coutinho AG, et al. Ebola in the Democratic Republic of the Congo: time to sound a global alert? *Lancet* 2019; **393**: 617–20.  
doi:10.1016/S0140-6736(19)30243-0.

<https://www.ncbi.nlm.nih.gov/pubmed/30732850>

Nimer NA. A review on emerging and re-emerging of infectious diseases in Jordan the aftermath of the Syrian crises. *J Pak Med Assoc* 2019; **69**: 412–14.

<https://www.ncbi.nlm.nih.gov/pubmed/30890837>

Shantha JG, Hayek BR, Crozier I, et al. Development of a screening eye clinic for Ebola virus disease survivors: lessons learned and rapid implementation at ELWA Hospital in Monrovia, Liberia 2015. *PLoS Negl Trop Dis* 2019; **13**: e0007209.  
doi:10.1371/journal.pntd.0007209.

<https://www.ncbi.nlm.nih.gov/pubmed/30845141>

Eroglu F, Ozgozta O. The increase in neglected cutaneous leishmaniasis in Gaziantep province of Turkey after mass human migration. *Acta Trop* 2019; **192**: 138–43.  
doi:10.1016/j.actatropica.2019.01.026.

<https://www.ncbi.nlm.nih.gov/pubmed/30710533>

Johnstone PW, Eder MK, Newton A, Bentley N, Rufus I. The West African Ebola emergency and reconstruction: lessons from Public Health England. *Br Med Bull* 2019; **129**: 79–89. doi:10.1093/bmb/ldz005.

<https://www.ncbi.nlm.nih.gov/pubmed/30806466>

Heywood AE, López-Vélez R. Reducing infectious disease inequities among migrants. *J Travel Med* 2019; **26**: tay131. doi:10.1093/jtm/tay131.

<https://www.ncbi.nlm.nih.gov/pubmed/30476162>

Finger F, Funk S, White K, Siddiqui MR, Edmunds WJ, Kucharski AJ. Real-time analysis of the diphtheria outbreak in forcibly displaced Myanmar nationals in Bangladesh. *BMC Med* 2019; **17**: 58. doi:10.1186/s12916-019-1288-7.

<https://www.ncbi.nlm.nih.gov/pubmed/30857521>

Mueller SM, Gysin S, Schweitzer M, et al. Implementation and evaluation of an algorithm for the management of scabies outbreaks. *BMC Infect Dis* 2019; **19**: 200.  
doi:10.1186/s12879-019-3818-5.

<https://www.ncbi.nlm.nih.gov/pubmed/30819115>

Grillet ME, Hernández-Villena JV, Llewellyn MS, et al. Venezuela's humanitarian crisis, resurgence of vector-borne diseases, and implications for spillover in the region. *Lancet Infect Dis* 2019; S1473-3099(18)30757-6.  
doi:10.1016/S1473-3099(18)30757-6.

<https://www.ncbi.nlm.nih.gov/pubmed/30799251>

Friedrich MJ. Yemen's deadly cholera epidemic. *JAMA* 2019; **321**: 637.  
doi:10.1001/jama.2019.0151.

<https://www.ncbi.nlm.nih.gov/pubmed/30778602>

Timothy JWS, Hall Y, Akoi-Boré J, et al. Early transmission and case fatality of Ebola virus at the index site of the 2013–16 west African Ebola outbreak: a cross-sectional seroprevalence survey. *Lancet Infect Dis* 2019; **19**: 429–38.  
doi:10.1016/S1473-3099(18)30791-6. [ePub: Feb 21. PubMed PMID: 30799252; PubMed Central PMCID: PMC6437313.]

<https://www.ncbi.nlm.nih.gov/pubmed/30799252>

Friedrich MJ. Multidrug Ebola trial underway in Democratic Republic of Congo. *JAMA* 2019; **321**: 637. doi:10.1001/jama.2019.0593. [PubMed PMID: 30778604.]  
<https://www.ncbi.nlm.nih.gov/pubmed/30778604>

---

## BIBLIOGRAPHY

---

Vinck P, Pham PN, Bindu KK, Bedford J, Nilles EJ. Institutional trust and misinformation in the response to the 2018–19 Ebola outbreak in North Kivu, DR Congo: a population-based survey. *Lancet Infect Dis* 2019; S1473-3099(19)30063-5. doi: 10.1016/S1473-3099(19)30063-5.  
<https://www.ncbi.nlm.nih.gov/pubmed/30928435>

### HIGH-INCOME COUNTRIES

El-Khatib Z, Taus K, Richter L, Allerberger F, Schmid D. A syndrome-based surveillance system for infectious diseases among asylum seekers in Austrian reception centers, 2015–2018: analysis of reported data. *JMIR Public Health Surveill* 2019; **5**: e11465. doi:10.2196/11465.

<https://www.ncbi.nlm.nih.gov/pubmed/30810535>

## II. NON-COMMUNICABLE DISEASE

### LOW- AND MIDDLE-INCOME COUNTRIES

Boulle P, Kehlenbrink S, Smith J, Beran D, Jobanputra K. Challenges associated with providing diabetes care in humanitarian settings. *Lancet Diabetes Endocrinol* 2019; S2213-8587(19)30083-X. doi:10.1016/S2213-8587(19)30083-X.

<https://www.ncbi.nlm.nih.gov/pubmed/30878269>

Kehlenbrink S, Smith J, Ansbro É, et al. The burden of diabetes and use of diabetes care in humanitarian crises in low-income and middle-income countries. *Lancet Diabetes Endocrinol* 2019; S2213-8587(19)30082-8. doi:10.1016/S2213-8587(19)30082-8.

<https://www.ncbi.nlm.nih.gov/pubmed/30878268>

Morrison SD. Immigrant and refugee explanatory models of chronic disease: provider “learning up” for culturally responsive care. *N C Med J* 2019; **80**: 113–15. doi:10.18043/ncm.80.2.113.

<https://www.ncbi.nlm.nih.gov/pubmed/30877162>

### HIGH-INCOME COUNTRIES

Chandra M, Duri A, Smith M. Prevalence of chronic disease risk factors in 35- to 44-year-old humanitarian arrivals to New South Wales (NSW), Australia. *Aust J Prim Health* 2019. doi:10.1071/PY18042.

<https://www.ncbi.nlm.nih.gov/pubmed/30678748>

## III. REPRODUCTIVE, MATERNAL, NEWBORN, CHILD, AND ADOLESCENT HEALTH

### LOW- AND MIDDLE-INCOME COUNTRIES

Seyife A, Fisseha G, Yebyo H, Gidey G, Gerensea H. Utilization of modern contraceptives and predictors among women in Shimelba refugee camp, northern Ethiopia. *PLoS One* 2019; **14**: e0212262. doi:10.1371/journal.pone.0212262.

<https://www.ncbi.nlm.nih.gov/pubmed/30840634>

Hirani SAA, Richter S. Maternal and child health during forced displacement. *J Nurs Scholarsh* 2019. doi:10.1111/jnu.12460.

<https://www.ncbi.nlm.nih.gov/pubmed/30730093>

Chukwuma A, Ekhator-Mobayode UE. Armed conflict and maternal health care utilization: evidence from the Boko Haram insurgency in Nigeria. *Soc Sci Med* 2019; **226**: 104–12. doi:10.1016/j.socscimed.2019.02.055.

<https://www.ncbi.nlm.nih.gov/pubmed/30851661>

---

## BIBLIOGRAPHY

---

Yaya S, Uthman OA, Bishwajit G, Ekholuenetale M. Maternal health care service utilization in post-war Liberia: analysis of nationally representative cross-sectional household surveys. *BMC Public Health* 2019; **19**: 28. doi:10.1186/s12889-018-6365-x.  
<https://www.ncbi.nlm.nih.gov/pubmed/30621669>

Pangas J, Ogunsiji O, Elmira R, et al. Refugee women's experiences negotiating motherhood and maternity care in a new country: a meta-ethnographic review. *Int J Nurs Stud* 2019; **90**: 31–45. doi:10.1016/j.ijnurstu.2018.10.005  
<https://www.ncbi.nlm.nih.gov/pubmed/30583266>

Beek K, McFadden A, Dawson A. The role and scope of practice of midwives in humanitarian settings: a systematic review and content analysis. *Hum Resour Health* 2019; **17**: 5. doi:10.1186/s12960-018-0341-5. [Review.]  
<https://www.ncbi.nlm.nih.gov/pubmed/30642335>

Afulani PA, Aborigo RA, Walker D, Moyer CA, Cohen S, Williams J. Can an integrated obstetric emergency simulation training improve respectful maternity care? Results from a pilot study in Ghana. *Birth* 2019 Jan 24. doi:10.1111/birt.12418.  
<https://www.ncbi.nlm.nih.gov/pubmed/30680785>

MirMohamadali M, Khani Jazani R, Sohrabizadeh S, Nikbakht Nasrabadi A. Barriers to breastfeeding in disasters in the context of Iran. *Prehosp Disaster Med* 2019; **34**: 20–24. doi:10.1017/S1049023X18001243.  
<https://www.ncbi.nlm.nih.gov/pubmed/30761978>

El Arab R, Sagbakken M. Child marriage of female Syrian refugees in Jordan and Lebanon: a literature review. *Glob Health Action* 2019; **12**: 1585709. doi:10.1080/16549716.2019.1585709. [PubMed PMID: 30907275.]  
<https://www.ncbi.nlm.nih.gov/pubmed/30907275>

Ivanova O, Rai M, Mlahagwa W, et al. A cross-sectional mixed-methods study of sexual and reproductive health knowledge, experiences and access to services among refugee adolescent girls in the Nakivale refugee settlement, Uganda. *Reprod Health* 2019; **16**: 35. doi:10.1186/s12978-019-0698-5. [PubMed PMID: 30890170; PubMed Central PMCID: PMC6425697.]  
<https://www.ncbi.nlm.nih.gov/pubmed/30890170>

Tittle V, Bennett DL, Hajat S, et al. Antenatal care among Palestine refugees in Jordan: factors associated with UNRWA attendance. *East Mediterr Health J* 2019; **25**: 98–103. doi:10.26719/emhj.18.017. [PubMed PMID: 30942473.]  
<https://www.ncbi.nlm.nih.gov/pubmed/30942473>

Beltrán Guzmán I, Gil Cuesta J, Trelles M, et al. Delays in arrival and treatment in emergency departments: Women, children and non-trauma consultations the most at risk in humanitarian settings. *PLoS One* 2019; **14**: e0213362. doi:10.1371/journal.pone.0213362.  
<https://www.ncbi.nlm.nih.gov/pubmed/30835777>

### HIGH-INCOME COUNTRIES

Kampouras A, Tzikos G, Partsanakis E, et al. Child morbidity and disease burden in refugee camps in mainland Greece. *Children (Basel)* 2019; **6**: E46. doi:10.3390/children6030046.  
<https://www.ncbi.nlm.nih.gov/pubmed/30884873>

Gewalt SC, Berger S, Szecsenyi J, Bozorgmehr K. “If you can, change this system”—pregnant asylum seekers’ perceptions on social determinants and material circumstances affecting their health whilst living in state-provided accommodation in Germany: a prospective, qualitative case study. *BMC Public Health* 2019; **19**: 287. doi:10.1186/s12889-019-6481-2.  
<https://www.ncbi.nlm.nih.gov/pubmed/30866874>

---

## BIBLIOGRAPHY

---

Hjern A, Stubbe Østergaard L, Nørredam ML. Health examinations of child migrants in Europe: screening or assessment of healthcare needs? *BMJ Paediatr Open* 2019; **3**: e000411. doi:10.1136/bmjpo-2018-000411. [eCollection 2019. PubMed PMID: 30957030.]  
<https://www.ncbi.nlm.nih.gov/pubmed/30957030>

## IV. NUTRITION AND FOOD SECURITY

### LOW- AND MIDDLE-INCOME COUNTRIES

Mohareb AM, Ivers LC. Disease and famine as weapons of war in Yemen. *N Engl J Med* 2019; **380**: 109–11. doi:10.1056/NEJMmp1813831.  
<https://www.ncbi.nlm.nih.gov/pubmed/30462588>

Doocy S, Ververs MT, Spiegel P, Beyrer C. The food security and nutrition crisis in Venezuela. *Soc Sci Med* 2019; **226**: 63–68. doi:10.1016/j.socscimed.2019.02.007.  
<https://www.ncbi.nlm.nih.gov/pubmed/30849671>

Ververs M, Muriithi JW, Burton A, Burton JW, Lawi AO. Scurvy outbreak among South Sudanese adolescents and young men—Kakuma refugee camp, Kenya, 2017–2018. *MMWR Morb Mortal Wkly Rep* 2019; **68**: 72–75. doi:10.15585/mmwr.mm6803a4.  
<https://www.ncbi.nlm.nih.gov/pubmed/30677009>

Fabreau GE, Bauman P, Coakley AL, et al. Skeletal fluorosis in a resettled refugee from Kakuma refugee camp. *Lancet* 2019; **393**: 223–25. doi:10.1016/S0140-6736(18)32842-3.  
<https://www.ncbi.nlm.nih.gov/pubmed/30663587>

Ibrahim N, Honein-AbouHaidar G, Jomaa L. Perceived impact of community kitchens on the food security of Syrian refugees and kitchen workers in Lebanon: qualitative evidence in a displacement context. *PLoS One* 2019; **14**: e0210814. [eCollection 2019.] doi:10.1371/journal.pone.0210814. [eCollection 2019.]  
<https://www.ncbi.nlm.nih.gov/pubmed/30682079>

Chamla D, Oladeji O, Maduanusi I, Mele S, Mshelia H, Safi N. High burden of co-morbidity and mortality among severely malnourished children admitted to outpatient therapeutic programme facilities in the conflict setting of Borno, Nigeria: a retrospective review. *Public Health Nutr* 2019; 1–8. doi:10.1017/S1368980018003968.  
<https://www.ncbi.nlm.nih.gov/pubmed/30741140>

Joseph J, Liamputpong P, Brodribb W. From liminality to vitality: infant feeding beliefs among refugee mothers from Vietnam and Myanmar. *Qual Health Res* 2019; 1049732318825147. doi:10.1177/1049732318825147.  
<https://www.ncbi.nlm.nih.gov/pubmed/30674230>

Mekonnen GK, Alemu BM, Mulat W, Sahilu G, Kloos H. Risk factors for acute childhood diarrhea: a cross-sectional study comparing refugee camps and host communities in Gambella Region, Ethiopia. *Travel Med Infect Dis* 2019; S1477-8939(19)30034-1. doi:10.1016/j.tmaid.2019.02.003.  
<https://www.ncbi.nlm.nih.gov/pubmed/30772602>

Theurich MA, Humphreys AL, Gosselin LB, McCool-Myers ME. Food safety considerations for commercial complementary foods from global operational guidance on infant and young child feeding in emergencies. *Nutr Rev* 2019; nuy065. doi:10.1093/nutrit/nuy065.  
<https://www.ncbi.nlm.nih.gov/pubmed/30812032>

---

## BIBLIOGRAPHY

---

Rogers E, Tappis H, Doocy S, et al. Costs and cost-effectiveness of three point-of-use water treatment technologies added to community-based treatment of severe acute malnutrition in Sindh Province, Pakistan. *Global Health Action* 2019; **12**: 1568827.  
<https://www.tandfonline.com/doi/abs/10.1080/16549716.2019.1568827>

### HIGH-INCOME COUNTRIES

Grammatikopoulou MG, Theodoridis X, Poulimeneas D, et al. Malnutrition surveillance among refugee children living in reception centres in Greece: a pilot study. *Int Health* 2019; **11**: 30–35. doi:10.1093/inthealth/ihy053.  
<https://www.ncbi.nlm.nih.gov/pubmed/30053024>.

## V. WATER, SANITATION, AND HYGIENE (WASH)

### LOW- AND MIDDLE-INCOME COUNTRIES

Watson J, Dreibelbis R, Aunger R, et al. Child's play: harnessing play and curiosity motives to improve child handwashing in a humanitarian setting. *Int J Hyg Environ Health* 2019; **222**: 177–82. doi:10.1016/j.ijheh.2018.09.002.  
<https://www.ncbi.nlm.nih.gov/pubmed/30219482>

### HIGH-INCOME COUNTRIES

N/A.

## VI. MENTAL HEALTH, PSYCHOSOCIAL ISSUES, AND SUBSTANCE ABUSE

### LOW- AND MIDDLE-INCOME COUNTRIES

Turrini G, Purgato M, Acarturk C, et al. Efficacy and acceptability of psychosocial interventions in asylum seekers and refugees: systematic review and meta-analysis. *Epidemiol Psychiatr Sci* 2019; 1–13. doi:10.1017/S2045796019000027.  
<https://www.ncbi.nlm.nih.gov/pubmed/30739625>

Roberts B, Makhashvili N, Javakhishvili J, et al. Mental health care utilisation among internally displaced persons in Ukraine: results from a nation-wide survey. *Epidemiol Psychiatr Sci* 2019; **28**: 100–11. doi:10.1017/S2045796017000385.  
<https://www.ncbi.nlm.nih.gov/pubmed/28747237>

Doherty S, Hulland E, Lopes-Cardozo B, et al. Prevalence of mental disorders and epidemiological associations in post-conflict primary care attendees: a cross-sectional study in the Northern Province of Sri Lanka. *BMC Psychiatry* 2019; **19**: 83. doi:10.1186/s12888-019-2064-0.  
<https://www.ncbi.nlm.nih.gov/pubmed/30832646>

Tay AK, Mohsin M, Rees S, Tam N, Kareth M, Silove D. The structure and psychosocial correlates of complicated bereavement amongst refugees from West Papua. *Soc Psychiatry Psychiatr Epidemiol* 2019. doi:10.1007/s00127-019-01666-1.  
<https://www.ncbi.nlm.nih.gov/pubmed/30778622>

Cheung A, Makhashvili N, Javakhishvili J, et al. Patterns of somatic distress among internally displaced persons in Ukraine: analysis of a cross-sectional survey. *Soc Psychiatry Psychiatr Epidemiol* 2019. doi:10.1007/s00127-019-01652-7.  
<https://www.ncbi.nlm.nih.gov/pubmed/30805693>

Frounfelker RL, Tahir S, Abdirahman A, Betancourt TS. Stronger together: community resilience and Somali Bantu refugees. *Cultur Divers Ethnic Minor Psychol* 2019. doi:10.1037/cdp0000286.  
<https://www.ncbi.nlm.nih.gov/pubmed/30920250>

---

## BIBLIOGRAPHY

---

- Comtesse H, Powell S, Soldo A, Hagl M, Rosner R. Long-term psychological distress of Bosnian war survivors: an 11-year follow-up of former displaced persons, returnees, and stayers. *BMC Psychiatry* 2019; **19**: 1. doi:10.1186/s12888-018-1996-0.  
<https://www.ncbi.nlm.nih.gov/pubmed/30606141>
- Khan NZ, Shilpi AB, Sultana R, et al. Displaced Rohingya children at high risk for mental health problems: findings from refugee camps within Bangladesh. *Child Care Health Dev* 2019; **45**: 28–35. doi:10.1111/cch.12623.  
<https://www.ncbi.nlm.nih.gov/pubmed/30335204>
- Beni Yonis O, Khader Y, Jarboua A, et al. Post-traumatic stress disorder among Syrian adolescent refugees in Jordan. *J Public Health (Oxf)* 2019; fdz026. doi:10.1093/pubmed/fdz026.  
<https://www.ncbi.nlm.nih.gov/pubmed/30927431>
- Do TTH, Correa-Velez I, Dunne MP. Trauma exposure and mental health problems among adults in central Vietnam: a randomized cross-sectional survey. *Front Psychiatry* 2019; **10**: 31. doi:10.3389/fpsyg.2019.00031.  
<https://www.ncbi.nlm.nih.gov/pubmed/30853915>
- Diab M, Peltonen K, Qouta SR, Palosaari E, Punamäki RL. Can functional emotion regulation protect children's mental health from war trauma? A Palestinian study. *Int J Psychol* 2019; **54**: 42–52. doi:10.1002/ijop.12427.  
<https://www.ncbi.nlm.nih.gov/pubmed/28421608>
- Karam EG, Fayyad JA, Farhat C, et al. Role of childhood adversities and environmental sensitivity in the development of post-traumatic stress disorder in war-exposed Syrian refugee children and adolescents. *Br J Psychiatry* 2019; 1–7. doi:10.1192/bj.p.2018.272. 30630553.  
<https://www.ncbi.nlm.nih.gov/pubmed/30630553>
- Neto A, Costa AG, Machado AG, Conceição D, Coutinho C, Rousseau C. Refugee resettlement I: challenges for mental healthcare services in Portugal. *Acta Med Port* 2019; **32**: 14–16. doi:10.20344/amp.10206.  
<https://www.ncbi.nlm.nih.gov/pubmed/30753798>
- Getnet B, Medhin G, Alem A. Symptoms of post-traumatic stress disorder and depression among Eritrean refugees in Ethiopia: identifying direct, mediating and moderating predictors from path analysis. *BMJ Open* 2019; **9**: e021142. doi:10.1136/bmjopen-2017-021142.  
<https://www.ncbi.nlm.nih.gov/pubmed/30659034>
- Regev S, Slonim-Nevo V. Sorrow shared is halved? War trauma experienced by others and mental health among Darfuri asylum seekers. *Psychiatry Res* 2019; **273**: 475–80. doi:10.1016/j.psychres.2019.01.049.  
<https://www.ncbi.nlm.nih.gov/pubmed/30684795>
- Mughairbi FA, Abdulaziz Alnajjar A, Hamid A. Effects of psychoeducation and stress coping techniques on posttraumatic stress disorder symptoms. *Psychol Rep* 2019; 33294118825101. doi:10.1177/0033294118825101.  
<https://www.ncbi.nlm.nih.gov/pubmed/30760172>
- Burchert S, Alkneme MS, Bird M, et al. User-centered app adaptation of a low-intensity e-mental health intervention for Syrian refugees. *Front Psychiatry* 2019; **9**: 663. doi:10.3389/fpsyg.2018.00663.  
<https://www.ncbi.nlm.nih.gov/pubmed/30740065>
- Sanhori Z, Eide AH, Ayazi T, Mdala I, Lien L. Change in mental health stigma after a brief intervention among internally displaced persons in central Sudan. *Community Ment Health J* 2019; **55**: 534–41. doi:10.1007/s10597-019-00375-y.  
<https://www.ncbi.nlm.nih.gov/pubmed/30771120>

---

## BIBLIOGRAPHY

---

Blanchette I, Rutembesa E, Habimana E, Caparos S. Long-term cognitive correlates of exposure to trauma: evidence from Rwanda. *Psychol Trauma* 2019; **11**: 147–55. doi:10.1037/tra0000388.

<https://www.ncbi.nlm.nih.gov/pubmed/30124309>

Foong A, Arthur D, West S, Kornhaber R, McLean L, Cleary M. The mental health plight of unaccompanied asylum-seeking children in detention. *J Adv Nurs* 2019; **75**: 255–57. doi:10.1111/jan.13782.

<https://www.ncbi.nlm.nih.gov/pubmed/29964352>

Jayawickreme E, Jayawickreme N, Zachry CE, Goonasekera MA. The importance of positive need fulfillment: evidence from a sample of war-affected Sri Lankans. *Am J Orthopsychiatry* 2019; **89**: 159–69. doi:10.1037/ort0000300.

<https://www.ncbi.nlm.nih.gov/pubmed/29355365>

Schreiber M, Cates DS, Formanski S, King M. Maximizing the resilience of healthcare workers in multi-hazard events: lessons from the 2014–2015 Ebola response in Africa. *Mil Med* 2019; **184** (suppl 1): 114–20. doi:10.1093/milmed/usy400.

<https://www.ncbi.nlm.nih.gov/pubmed/30901435>

Getnet B, Alem A. Construct validity and factor structure of sense of coherence (SoC-13) scale as a measure of resilience in Eritrean refugees living in Ethiopia. *Confl Health* 2019; **13**: 3. doi:10.1186/s13031-019-0185-1.

<https://www.ncbi.nlm.nih.gov/pubmed/30774708>

Sim A, Bowes L, Gardner F. The promotive effects of social support for parental resilience in a refugee context: a cross-sectional study with Syrian mothers in Lebanon. *Prev Sci* 2019. doi:10.1007/s11121-019-0983-0.

<https://www.ncbi.nlm.nih.gov/pubmed/30684214>

### HIGH-INCOME COUNTRIES

Wood N, Charlwood G, Zecchin C, Hansen V, Douglas M, Pit SW. Qualitative exploration of the impact of employment and volunteering upon the health and wellbeing of African refugees settled in regional Australia: a refugee perspective. *BMC Public Health* 2019; **19**: 143. doi:10.1186/s12889-018-6328-2.

<https://www.ncbi.nlm.nih.gov/pubmed/30709388>

Sohn JH, Lim J, Lee JS, et al. Prevalence of possible depression and post-traumatic stress disorder among community dwelling adult refugees and refugee applicants in South Korea. *J Korean Med Sci* 2019; **34**: e97. doi:10.3346/jkms.2019.34.e97.

<https://www.ncbi.nlm.nih.gov/pubmed/30914907>

Satinsky E, Fuhr DC, Woodward A, Sondorp E, Roberts B. Mental health care utilisation and access among refugees and asylum seekers in Europe: a systematic review.

*Health Policy* 2019; S0168-8510(19)30039-9. doi:10.1016/j.healthpol.2019.02.007.

<https://www.ncbi.nlm.nih.gov/pubmed/30850148>

Böge K, Karnouk C, Hahn E, et al. Mental health in refugees and asylum seekers (MEHIRA): study design and methodology of a prospective multicentre randomized controlled trial investigating the effects of a stepped and collaborative care model.

*Eur Arch Psychiatry Clin Neurosci* 2019. doi:10.1007/s00406-019-00991-5.

<https://www.ncbi.nlm.nih.gov/pubmed/30796528>

Hanes G, Chee J, Mutch R, Cherian S. Paediatric asylum seekers in Western Australia: identification of adversity and complex needs through comprehensive refugee health assessment. *J Paediatr Child Health* 2019. doi:10.1111/jpc.14425.

<https://www.ncbi.nlm.nih.gov/pubmed/30868701>

---

## BIBLIOGRAPHY

---

Kartal D, Alkemade N, Kiropoulos L. Trauma and mental health in resettled refugees: mediating effect of host language acquisition on posttraumatic stress disorder, depressive and anxiety symptoms. *Transcult Psychiatry* 2019; **56**: 3-23. doi:10.1177/1363461518789538.

<https://www.ncbi.nlm.nih.gov/pubmed/30117781>

Høyvik AC, Lie B, Willumsen T. Dental anxiety in relation to torture experiences and symptoms of post-traumatic stress disorder. *Eur J Oral Sci* 2019; **127**: 65-71. doi:10.1111/eos.12592.

<https://www.ncbi.nlm.nih.gov/pubmed/30444297>

Müller LRF, Büter KP, Rosner R, Unterhitzenberger J. Mental health and associated stress factors in accompanied and unaccompanied refugee minors resettled in Germany: a cross-sectional study. *Child Adolesc Psychiatry Ment Health* 2019; **13**: 8. doi:10.1186/s13034-019-0268-1

<https://www.ncbi.nlm.nih.gov/pubmed/30719070>

Mitra R, Hodes M. Prevention of psychological distress and promotion of resilience amongst unaccompanied refugee minors in resettlement countries. *Child Care Health Dev* 2019; **45**: 198-215. doi:10.1111/cch.12640.

<https://www.ncbi.nlm.nih.gov/pubmed/30661259>

Kallakorpi S, Haatainen K, Kankkunen P. Psychiatric nursing care experiences of immigrant patients: a focused ethnographic study. *Int J Ment Health Nurs* 2019; **28**: 117-27. doi:10.1111/inm.12500.

<https://www.ncbi.nlm.nih.gov/pubmed/29883019>

Rousseau C, Frounfelker RL. Mental health needs and services for migrants: an overview for primary care providers. *J Travel Med* 2019; **26**: tay150. doi:10.1093/jtm/tay150.

<https://www.ncbi.nlm.nih.gov/pubmed/30561687>

Melamed S, Chernet A, Labhardt ND, Probst-Hensch N, Pfeiffer C. Social resilience and mental health among Eritrean asylum-seekers in Switzerland. *Qual Health Res* 2019; **29**: 222-36. doi:10.1177/1049732318800004.

<https://www.ncbi.nlm.nih.gov/pubmed/30222038>

Regev S, Slonim-Nevo V. Trauma and mental health in Darfuri asylum seekers: the effect of trauma type and the mediating role of interpersonal sensitivity. *J Affect Disord* 2019; **246**: 201-08. doi:10.1016/j.jad.2018.12.024.

<https://www.ncbi.nlm.nih.gov/pubmed/30583146>

Laukamp A, Prüfer-Krämer L, Fischer F, Krämer A. Health of Syrian unaccompanied asylum seeking adolescents (UASA) at first medical examination in Germany in comparison to UASA from other world regions. *BMC Int Health Hum Rights* 2019; **19**: 5. doi:10.1186/s12914-019-0192-8.

<https://www.ncbi.nlm.nih.gov/pubmed/30808358>

Garoff F, Kangaslampi S, Peltonen K. Development and implementation of a group based mental health intervention for unaccompanied minors. *Scand J Psychol* 2019; **60**: 7-15. doi:10.1111/sjop.12497.

<https://www.ncbi.nlm.nih.gov/pubmed/30452082>

Wulfes N, Del Pozo MA, Buhr-Riehm B, Heinrichs N, Kröger C. Screening for posttraumatic stress disorder in refugees: comparison of the diagnostic efficiency of two self-rating measures of posttraumatic stress disorder. *J Trauma Stress* 2019; **32**: 148-55. doi:10.1002/jts.22358.

<https://www.ncbi.nlm.nih.gov/pubmed/30694568>

---

## BIBLIOGRAPHY

---

Miranda J, Legha R. The consequences of family separation at the border and beyond. *J Am Acad Child Adolesc Psychiatry* 2019; **58**: 139–40.  
doi:10.1016/j.jaac.2018.09.429.

<https://www.ncbi.nlm.nih.gov/pubmed/30577929>

Sierau S, Glaesmer H, Klucken T, Stalder T. Hair cortisol, lifetime traumatic experiences and psychopathology in unaccompanied refugee minors. *Psychoneuroendocrinol* 2019; **104**: 191–94. doi:10.1016/j.psyneuen.2019.03.003.

<https://www.ncbi.nlm.nih.gov/pubmed/30856425>

Panter-Brick C, Wiley K, Sancilio A, Dajani R, Hadfield K. C-reactive protein, Epstein-Barr virus, and cortisol trajectories in refugee and non-refugee youth: links with stress, mental health, and cognitive function during a randomized controlled trial. *Brain Behav Immun* 2019; S0889-1591(18)30341-6. doi:10.1016/j.bbi.2019.02.015.

<https://www.ncbi.nlm.nih.gov/pubmed/30797045>

Frost R, Hyland P, McCarthy A, Halpin R, Shevlin M, Murphy J. The complexity of trauma exposure and response: Profiling PTSD and CPTSD among a refugee sample. *Psychol Trauma* 2019; **11**: 165–75. doi:10.1037/tra0000408.

<https://www.ncbi.nlm.nih.gov/pubmed/30346204>

Salami B, Salma J, Hegadoren K. Access and utilization of mental health services for immigrants and refugees: Perspectives of immigrant service providers. *Int J Ment Health Nurs* 2019; **28**: 152–61. doi:10.1111/inm.12512.

<https://www.ncbi.nlm.nih.gov/pubmed/29984880>

## VII. HEALTH SYSTEMS

### LOW- AND MIDDLE-INCOME COUNTRIES

Tayfur I, Günaydin M, Suner S. Healthcare service access and utilization among Syrian refugees in Turkey. *Ann Glob Health* 2019; **85**: 42. doi:10.5334/aogh.2353.

<https://www.ncbi.nlm.nih.gov/pubmed/30896133>

Truppa C, Leresche E, Fuller AF, et al. Utilization of primary health care services among Syrian refugee and Lebanese women targeted by the ICRC program in Lebanon: a cross-sectional study. *Confl Health* 2019; **13**: 7. doi:10.1186/s13031-019-0190-4.

<https://www.ncbi.nlm.nih.gov/pubmed/30923560>

Yesuf EA, Grill E, Fröschl G, Koller D, Haile-Mariam D. Administrators, health service providers, and consumers perspectives of functions of district health-care systems in Oromia region, Ethiopia: a qualitative study. *Int J Health Plann Manage* 2019. doi:10.1002/hpm.2742

<https://www.ncbi.nlm.nih.gov/pubmed/30729577>

Loomis AM, Berthold SM, Buckley T, Wagner J, Kuoch T. Integrated health care and mHealth: a model of care for refugees with complex health conditions. *Soc Work Public Health* 2019; 1–12. doi:10.1080/19371918.2019.1575311.

<https://www.ncbi.nlm.nih.gov/pubmed/30774044>

Ardic A, Esin MN, Koc S, Bayraktar B, Sunal N. Using the Omaha System to determine health problems of urban Syrian immigrants. *Public Health Nurs* 2019; **36**: 126–33. doi:10.1111/phn.12563.

<https://www.ncbi.nlm.nih.gov/pubmed/30467898>

Kadir A, Battersby A, Spencer N, Hjern A. Children on the move in Europe: a narrative review of the evidence on the health risks, health needs and health policy for asylum seeking, refugee and undocumented children. *BMJ Paediatr Open* 2019; **3**: bmjpo-2018-000364. doi:10.1136/bmjpo-2018-000364.

<https://www.ncbi.nlm.nih.gov/pubmed/30815582>

---

## BIBLIOGRAPHY

---

Negev M, Teschner N, Rosenthal A, Levine H, Lew-Levy C, Davidovitch N. Adaptation of health systems to climate-related migration in sub-Saharan Africa: closing the gap. *Int J Hyg Environ Health* 2019; **222**: 311–14. doi:10.1016/j.ijheh.2018.10.004.  
<https://www.ncbi.nlm.nih.gov/pubmed/30503929>

Al Alawneh M, Nuaimi N, Basheti IA. Pharmacists in humanitarian crisis settings: Assessing the impact of pharmacist-delivered home medication management review service to Syrian refugees in Jordan. *Res Social Adm Pharm* 2019; **15**: 164–72. doi:10.1016/j.sapharm.2018.04.008.  
<https://www.ncbi.nlm.nih.gov/pubmed/29661563>

Akik C, Ghattas H, Mesmar S, Rabkin M, El-Sadr WM, Fouad FM. Host country responses to non-communicable diseases amongst Syrian refugees: a review. *Confl Health* 2019; **13**: 8. doi:10.1186/s13031-019-0192-2. [eCollection 2019. Review.]  
<https://www.ncbi.nlm.nih.gov/pubmed/30949232>

### HIGH-INCOME COUNTRIES

N/A.

## VIII. MULTI-CATEGORY

### LOW- AND MIDDLE-INCOME COUNTRIES

Kadir A, Shenoda S, Goldhagen J. Effects of armed conflict on child health and development: a systematic review. *PLoS One* 2019; **14**: e0210071. doi:10.1371/journal.pone.0210071. [eCollection 2019. Erratum in: *PLoS One* 2019; **14**: e0212393.]  
<https://www.ncbi.nlm.nih.gov/pubmed/30650095>

Meyer SR, Meyer E, Bangirana C, Mangen PO, Stark L. Protection and well-being of adolescent refugees in the context of a humanitarian crisis: perceptions from South Sudanese refugees in Uganda. *Soc Sci Med* 2019; **221**: 79–86. doi:10.1016/j.socscimed.2018.11.034.  
<https://www.ncbi.nlm.nih.gov/pubmed/30572151>

Heenan RC, Volkman T, Stokes S, et al. ‘I think we’ve had a health screen’: new offshore screening, new refugee health guidelines, new Syrian and Iraqi cohorts: recommendations, reality, results and review. *J Paediatr Child Health* 2019; **55**: 95–103. doi:10.1111/jpc.14142.  
<https://www.ncbi.nlm.nih.gov/pubmed/30094942>

McEniry M, Samper-Ternent R, Cano-Gutierrez C. Displacement due to armed conflict and violence in childhood and adulthood and its effects on older adult health: the case of the middle-income country of Colombia. *SSM Popul Health* 2019; **7**: 100369. doi:10.1016/j.ssmph.2019.100369. [eCollection April 2019. PubMed PMID: 30859118.]  
<https://www.ncbi.nlm.nih.gov/pubmed/30859118>

Bal S, Duckles A, Buttenheim A. Visual health and visual healthcare access in refugees and displaced persons: a systematic review. *J Immigr Minor Health* 2019; **21**: 161–74. doi:10.1007/s10903-018-0766-x. [Review. PubMed PMID: 29860671.]  
<https://www.ncbi.nlm.nih.gov/pubmed/29860671>

Carruth L, Mendenhall E. “Wasting away”: diabetes, food insecurity, and medical insecurity in the Somali region of Ethiopia. *Soc Sci Med* 2019; **228**: 155–63. doi:10.1016/j.socscimed.2019.03.026. [ePub: March 20. PubMed PMID: 30913529.]  
<https://www.ncbi.nlm.nih.gov/pubmed/30913529>

Bress J, Kashemwa G, Amisi C, et al. Delivering integrated care after sexual violence in the Democratic Republic of the Congo. *BMJ Glob Health* 2019; **4**: e001120. doi:10.1136/bmjgh-2018-001120. [eCollection 2019.]  
<https://www.ncbi.nlm.nih.gov/pubmed/30899559>

---

## BIBLIOGRAPHY

---

### HIGH-INCOME COUNTRIES

Moran EB, Katz MA, Ari OB, Davidovitch N, Zwang O. For what illnesses do asylum seekers and undocumented migrant workers in Israel seek healthcare? An analysis of medical visits at a large urgent care clinic for the uninsured in Tel Aviv. *Int J Environ Res Public Health* 2019; **16**: E252. doi:10.3390/ijerph16020252.

<https://www.ncbi.nlm.nih.gov/pubmed/30779759>

## Natural Disasters

### I. COMMUNICABLE DISEASE

#### LOW- AND MIDDLE-INCOME COUNTRIES

Sekine K, Roskosky M. Lessons learned from enhancing sentinel surveillance for cholera in post-earthquake Nepal in 2016. *Am J Trop Med Hyg* 2019; **100**: 494–96. doi:10.4269/ajtmh.17-1008.

<https://www.ncbi.nlm.nih.gov/pubmed/30652658>

Dogra N, Kakde V, Taneja P. Decision tool for climate disasters and infectious disease at sub-national level in India: Ensuring a paradigm shift in health planning from prevalence to vulnerability. *Acta Trop* 2019; **191**: 60–68. doi:10.1016/j.actatropica.2018.12.006.

<https://www.ncbi.nlm.nih.gov/pubmed/30553895>

Han KT, Wai KT, Aye KH, Kyaw KW, Maung WP, Oo T. Emerging neglected helminthiasis and determinants of multiple helminth infections in flood-prone township in Myanmar. *Trop Med Health* 2019; **47**: 1. doi:10.1186/s41182-018-0133-6.

<https://www.ncbi.nlm.nih.gov/pubmed/30787669>

#### HIGH-INCOME COUNTRIES

Liu Z, Ding G, Zhang Y, et al. Identifying different types of flood-sensitive diarrheal diseases from 2006 to 2010 in Guangxi, China. *Environ Res* 2019; **170**: 359–65. doi:10.1016/j.envres.2018.12.067.

<https://www.ncbi.nlm.nih.gov/pubmed/30623882>

### II. NON-COMMUNICABLE DISEASE

#### LOW- AND MIDDLE-INCOME COUNTRIES

N/A.

#### HIGH-INCOME COUNTRIES

Covey J, Horwell CJ, Rachmawati L, et al. Factors motivating the use of respiratory protection against volcanic ashfall: a comparative analysis of communities in Japan, Indonesia and Mexico. *Int J Disaster Risk Reduct* 2019; 101066.

<https://www.sciencedirect.com/science/article/pii/S2212420918313670?via%3Dihub>

### III. REPRODUCTIVE, MATERNAL, NEWBORN, CHILD, AND ADOLESCENT HEALTH

N/A.

### IV. NUTRITION AND FOOD SECURITY

#### LOW- AND MIDDLE-INCOME COUNTRIES

N/A.

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## BIBLIOGRAPHY

---

### HIGH-INCOME COUNTRIES

Ireton-Jones C, Nishikawa K, Nishikawa R. Home parenteral and enteral nutrition during natural disasters: a guide for clinicians and consumers. *Nutr Clin Pract* 2019; **34**: 216–19. doi:10.1002/ncp.10260.  
<https://www.ncbi.nlm.nih.gov/pubmed/30767286>

## V. WATER, SANITATION, AND HYGIENE (WASH)

N/A.

## VI. MENTAL HEALTH, PSYCHOSOCIAL ISSUES, AND SUBSTANCE ABUSE

### LOW- AND MIDDLE-INCOME COUNTRIES

Zahlawi T, Roome AB, Chan CW, et al. Psychosocial support during displacement due to a natural disaster: relationships with distress in a lower-middle income country. *Int Health* 2019; ihy099. doi:10.1093/inthealth/ihy099.  
<https://www.ncbi.nlm.nih.gov/pubmed/30805602>

James LE, Welton-Mitchell C, Noel JR, James AS. Integrating mental health and disaster preparedness in intervention: a randomized controlled trial with earthquake and flood-affected communities in Haiti. *Psychol Med* 2019; 1–11. doi:10.1017/S0033291719000163.

<https://www.ncbi.nlm.nih.gov/pubmed/30782236>

Fresán A, Robles-García R, Becerra-Palars C, et al. Reaction to severe stress and adjustment disorders after the September 2017 earthquakes in a psychiatric emergency department in Mexico City. *Disaster Med Public Health Prep* 2019; 1–5. doi:10.1017/dmp.2018.136.

<https://www.ncbi.nlm.nih.gov/pubmed/30602404>

Rafiey H, Alipour F, LeBeau R, Salimi Y. Prevalence and determinants of PTSD 3 years after an earthquake in Iran. *Community Ment Health J* 2019; **55**: 542–47. doi:10.1007/s10597-019-00384-x. [ePub Feb 22, 2019.]

<https://www.ncbi.nlm.nih.gov/pubmed/30796682>

Khatri GK, Tran TD, Fisher J. Prevalence and determinants of symptoms of antenatal common mental disorders among women who had recently experienced an earthquake: a systematic review. *BMC Psychiatry* 2019; **19**: 47. doi:10.1186/s12888-018-1986-2.

<https://www.ncbi.nlm.nih.gov/pubmed/30691424>

Eichfeld C, Farrell D, Mattheß M, et al. Trauma stabilisation as a sole treatment intervention for post-traumatic stress disorder in southeast Asia. *Psychiatr Q* 2019; **90**: 63–88. doi:10.1007/s11126-018-9598-z.

<https://www.ncbi.nlm.nih.gov/pubmed/30267358>

Mattheß C, Farrell D, Mattheß M, et al. The therapeutic value of trauma stabilisation in the treatment of post-traumatic stress disorder—a southeast Asian study. *Asian J Psychiatr* 2019; **41**: 45–49. doi:10.1016/j.ajp.2018.09.010.

<https://www.ncbi.nlm.nih.gov/pubmed/30340966>

Baniasadi M, Divsalar P, Noorbala AA, Eslami Shahrbabaki M, Aflatoonian B, Ashrafi Asgarabad A. Bam earthquake survivors' mental health status 12 years after the earthquake: a population-based study. *Arch Iran Med* 2019; **22**: 59–64.

<https://www.ncbi.nlm.nih.gov/pubmed/30980639>

---

## BIBLIOGRAPHY

---

Nobakht HN, Ojagh FS, Dale KY. Risk factors of post-traumatic stress among survivors of the 2017 Iran earthquake: The importance of peritraumatic dissociation. *Psychiatry Res* 2019; **271**: 702-07. doi:10.1016/j.psychres.2018.12.057.  
<https://www.ncbi.nlm.nih.gov/pubmed/30791344>

### HIGH-INCOME COUNTRIES

Liang Y, Cheng J, Ruzek JL, Liu Z. Posttraumatic stress disorder following the 2008 Wenchuan earthquake: a 10-year systematic review among highly exposed populations in China. *J Affect Disord* 2019; **243**: 327-39. doi:10.1016/j.jad.2018.09.047.  
<https://www.ncbi.nlm.nih.gov/pubmed/30261448>

Inoue Y, Stickley A, Yazawa A, et al. Adverse childhood experiences, exposure to a natural disaster and posttraumatic stress disorder among survivors of the 2011 Great East Japan earthquake and tsunami. *Epidemiol Psychiatr Sci* 2019; **28**: 45-53. doi:10.1017/S2045796017000233.  
<https://www.ncbi.nlm.nih.gov/pubmed/28502272>

Lee E, Lee H. Disaster awareness and coping: Impact on stress, anxiety, and depression. *Perspect Psychiatr Care* 2019; **55**: 311-18. doi:10.1111/ppc.12351. [ePub Jan 16, 2019. PubMed PMID: 30648274.]  
<https://www.ncbi.nlm.nih.gov/pubmed/30648274>

Eisma MC, Lenferink LIM, Chow AYM, Chan CLW, Li J. Complicated grief and post-traumatic stress symptom profiles in bereaved earthquake survivors: a latent class analysis. *Eur J Psychotraumatol* 2019; **10**: 1558707. doi:10.1080/20008198.2018.1558707.  
<https://www.ncbi.nlm.nih.gov/pubmed/30693076>

Thordardottir EB, Gudmundsdottir H, Gudmundsdottir B, Hrólfssdóttir AM, Aspelund T, Hauksdottir A. Development and predictors of psychological outcomes following the 2008 earthquake in Iceland: a longitudinal cohort study. *Scand J Public Health* 2019; **47**: 269-79. doi:10.1177/1403494818771444.  
<https://www.ncbi.nlm.nih.gov/pubmed/29745295>

Zuromski KL, Resnick H, Price M, Galea S, Kilpatrick DG, Ruggiero K. Suicidal ideation among adolescents following natural disaster: the role of prior interpersonal violence. *Psychol Trauma* 2019; **11**: 184-88. doi:10.1037/tra0000365.  
<https://www.ncbi.nlm.nih.gov/pubmed/29733669>

Jacobs J, Oosterbeek M, Tummers LG, Noordegraaf M, Yzermans CJ, Dückers MLA. The organization of post-disaster psychosocial support in the Netherlands: a meta-synthesis. *Eur J Psychotraumatol* 2019; **10**: 1544024. doi:10.1080/20008198.2018.1544024.  
<https://www.ncbi.nlm.nih.gov/pubmed/30815232>

Cohen GH, Tamrakar S, Lowe S, et al. Improved social services and the burden of post-traumatic stress disorder among economically vulnerable people after a natural disaster: a modelling study. *Lancet Planet Health* 2019; **3**: e93-101. doi:10.1016/S2542-5196(19)30012-9.  
<https://www.ncbi.nlm.nih.gov/pubmed/30797416>

Jones H, Dorahy MJ, Britt E, et al. Predictors of posttraumatic stress symptom trajectories following the fatal 2011 Christchurch, New Zealand earthquake. *J Trauma Stress* 2019. doi:10.1002/jts.22387.  
<https://www.ncbi.nlm.nih.gov/pubmed/30907980>

Pledger MJ, McDonald J, Cumming J. SF-12 indicators of health following the 22 February 2011 Christchurch earthquake. *N Z Med J* 2019; **132**: 69-80. [PubMed PMID: 30703781.]  
<https://www.ncbi.nlm.nih.gov/pubmed/30703781>

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## BIBLIOGRAPHY

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Horiuchi S, Ozaki A, Inoue M, Aida J, Yamaoka K. Relation of high social capital to preferable emotional response to news media broadcasting of natural disasters: a nationwide cross-sectional study in Japan. *Tohoku J Exp Med* 2019; **247**: 129–37. doi:10.1620/tjem.247.129.  
<https://www.ncbi.nlm.nih.gov/pubmed/30799327>

## VII. HEALTH SYSTEMS

N/A.

## VIII. MULTI-CATEGORY

### LOW- AND MIDDLE-INCOME COUNTRIES

N/A.

### HIGH-INCOME COUNTRIES

Sweileh WM. A bibliometric analysis of health-related literature on natural disasters from 1900 to 2017. *Health Res Policy Syst* 2019; **17**: 18. doi:10.1186/s12961-019-0418-1  
<https://www.ncbi.nlm.nih.gov/pubmed/30744641>

Felix ED, Binmoeller C, Nylund-Gibson K, Benight CC, Benner AD, Terzieva A. Addressing disaster exposure measurement issues with latent class analysis. *J Trauma Stress* 2019; **32**: 56–66. doi:10.1002/jts.22368.  
<https://www.ncbi.nlm.nih.gov/pubmed/30698859>

## Technological Disasters

## I. COMMUNICABLE DISEASE

N/A.

## II. NON-COMMUNICABLE DISEASE

### LOW- AND MIDDLE-INCOME COUNTRIES

N/A.

### HIGH-INCOME COUNTRIES

Murase K, Murase J, Mishima A. Nationwide increase in complex congenital heart diseases after the Fukushima nuclear accident. *J Am Heart Assoc* 2019; **8**: e009486. doi:10.1161/JAHA.118.009486.  
<https://www.ncbi.nlm.nih.gov/pubmed/30862223>

## III. REPRODUCTIVE, MATERNAL, NEWBORN, CHILD, AND ADOLESCENT HEALTH

## IV. NUTRITION AND FOOD SECURITY

## V. WATER, SANITATION, AND HYGIENE (WASH)

III.-V., N/A.

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## BIBLIOGRAPHY

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### VI. MENTAL HEALTH, PSYCHOSOCIAL ISSUES, AND SUBSTANCE ABUSE

#### LOW- AND MIDDLE-INCOME COUNTRIES

N/A.

#### HIGH-INCOME COUNTRIES

Murakami M, Takebayashi Y, Tsubokura M. Lower psychological distress levels among returnees compared with evacuees after the Fukushima nuclear accident. *Tohoku J Exp Med* 2019; **247**: 13–17. doi:10.1620/tjem.247.13.

<https://www.ncbi.nlm.nih.gov/pubmed/30643109>

Yoo S, Sim M, Choi J, et al. Psychological responses among humidifier disinfectant disaster victims and their families. *J Korean Med Sci* 2019; **34**: e29. doi:10.3346/jkms.2019.34.e29.

<https://www.ncbi.nlm.nih.gov/pubmed/30686951>

Shieh V, Huang JJ, Wu TG, et al. Rate of psychiatric disorders and associations with quality of life among community members following the Kaohsiung gas explosion: an 18-month cross-sectional follow-up study. *Health Qual Life Outcomes* 2019; **17**: 7. doi:10.1186/s12955-018-1076-7.

<https://www.ncbi.nlm.nih.gov/pubmed/30635003>

### VII. HEALTH SYSTEMS

### VIII. MULTI-CATEGORY

VII.–VIII., N/A.



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▲ Baraa Khamis Sallhi, a resident of the Askar refugee camp in the West Bank with type 1 diabetes. Inspired by the care she received from UNRWA, she now works as a nurse helping other refugees (Photograph by Jesper Westley, courtesy of the World Diabetes Foundation).