HEALTH ISSUES AFFECTING DISPLACED POPULATIONS
The Evolution of Public Health Response in Emergency and Post-Emergency Phases of Complex Emergencies
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Introduction
The field of humanitarian response has made tremendous strides over the past decade. In the Cambodian refugee camps in the 1980s, the establishment of basic health information systems allowing for rapid response and directing health programs according to the data collected, proved a powerful tool in improving the health of the refugee populations. Simple but powerful epidemiological computer programs were developed which have proved invaluable in the field.

As a consequence of the terrible toll of the numerous massive population displacements in Africa and Asia throughout the past two decades, the importance of implementing rapid mass measles immunization campaigns for children, methods to detect, measure and treat malnutrition, and the recognition that four main communicable diseases (measles, diarrhea, lower respiratory tract infections, and malaria) during the acute phase of crises often accounted for over 70% of all deaths in the camps, has saved an incalculable number of lives.

The field of disaster response has slowly professionalized over the past decade. Western-trained health professionals, whose education generally emphasizes an individual patient-centered curative approach, now have the opportunity to choose from various training programs which focus on the essential elements of managing health situations in complex emergencies (CEs), with an emphasis on public health and preventive medicine. From the numerous experiences of responding to mass population movements during the past few decades, a codification of standards of care during the acute phase of CEs has been developed.
sential medication lists have been established, and large kits containing medical supplies for rapid response have been created and pre-positioned. However, responses are still based upon the early paradigms of humanitarian response and have not effectively evolved over the past 5-10 years, in terms of addressing different typologies and epidemiological disease profiles of CEs, as well as the different phases and their definitions.

Typologies

Before the fall of the Soviet Union in 1991, most international responses to CEs, or complex humanitarian emergencies (CHEs) as they have generally been called, occurred in S-E Asia and Africa. Typically, there were numerous causes, primarily a mixture of natural (draught, flood, famine) and political instability (coup, military conflicts), which resulted in massive population displacements. These people were generally poor, both in terms of health status as well as material possessions. They often walked for days and weeks, crossing a border into a remote region of another country whose people were equally poor and had little to offer. The combination of their exhaustion and malnutrition allowed communicable diseases, often in epidemics, to ravage the population.

With the disintegration of the Federal Republic of Yugoslavia in 1991/92, a different type of CE was observed, sometimes referred to as a complex political emergency (CPE).

Epidemiological Disease Profiles

Disease profiles of countries often depend upon the stages of their development. Communicable diseases account for the majority of deaths in developing countries, and baseline mortality rates are higher. Developed countries’ crude and age-specific mortality rates are much lower than developing countries. Populations live longer and non-infectious chronic diseases, such as lung, cardiac, and certain cancers account for the majority of deaths. The baseline epidemiological disease profile of these populations directly affects the disease profiles observed in the different crises. Furthermore, the different populations’ baseline health status and material wealth, combined with the distance, time and mode of travel (foot vs vehicle) used to reach ‘safety’, as well as the remoteness of that location, all have a tremendous effect on the type and degree of morbidity and mortality observed. For example, in the recent CPEs in the Balkans, mortality rates have remained relatively low, and deaths directly related to war trauma have accounted for the majority of all mortality, while deaths due to malnutrition and communicable disease remained relatively low compared to the CHEs which have occurred in S-E Asia and Africa.

Phases

CEs are generally divided into three phases: emergency, post-emergency, and repatriation/resettlement. Due to the high mortality in previous CHEs in S-E Asia and Africa, the definition of an emergency phase came to depend upon the level of mortality noted. If the mortality rate is >1 death/10,000 persons/day, which is approximately two times the normal baseline rate for developing countries, then the phase is considered to be an emergency. This definition of an emergency phase does not necessarily apply to the CPEs which have oc-
curred in the Balkans, where overall mortality rates have often remained low,\textsuperscript{13,16} despite massive population shifts in situations which were obviously acute humanitarian crises.\textsuperscript{11} A different definition of an emergency phase for these CPEs needs to be established which takes into account the magnitude of displacement and consequent morbidity and change in circumstances (shelter, water, sanitation, source of income, etc.), rather than solely the level of mortality.

If one examines the life of a CE, many displaced populations remain in that status for years. Yet for the most part, guidelines and indicators have only been developed for the emergency phase of a CE.\textsuperscript{7} In general, emergency phases of CHES last 1-6 months, the time it takes to bring the mortality below the 1 death /10,000 persons/day threshold. After this period, mortality rates often stabilize and may even be lower than the host country.\textsuperscript{17} Morbidity and quality of life issues then become the major concern in the post-emergency phase. Issues such as reproductive health,\textsuperscript{18} psychosocial illness, and chronic diseases are relatively new to the humanitarian field. All of the above issues must be considered and programs developed during the emergency phase. Whenever possible, these programs should also be implemented during that phase, and then become more comprehensive, while remaining adaptable, during the post-emergency phase. The last two articles discuss the new typology of the CPE. They highlight the similarities and differences between CHES and CPEs, as well as provide recommendations to the NGOs responding to these crises.

Current Refuge Issue- Health Issues Affecting Displaced Populations

I believe that this current issue of Refuge will help address some of the deficiencies in humanitarian aid listed above. The first three articles discuss established areas of CHES—malaria, malnutrition, and water/sanitation. As these papers clearly show, resistance to antimalarial drugs and new techniques for the diagnosis of malaria, malnutrition in adolescence and adulthood, and water/sanitation issues in CPEs are rapidly evolving and NGO must adapt to them if they are to be effective in the field. The next four articles discuss reproductive health, economic issues, and quality control and management issues in CPEs. The former topic has received much attention in the past 5 years and is now becoming an integral part of humanitarian aid. The latter two topics are relatively new to the humanitarian field. All of the above issues must be considered and programs developed during the emergency phase. Whenever possible, these programs should also be implemented during that phase, and then become more comprehensive, while remaining adaptable, during the post-emergency phase.

References


