Lack of Cultural Competency in International Aid Responses: The Ebola Outbreak in Liberia

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A cornerstone of effective disaster management is that response should always begin and end at the local level (1). The response to the Ebola virus disease (EVD) outbreak in Liberia, West Africa, was a combination of independent efforts by many nations and organizations. Many of these independent efforts ignored or were not able to work with the local levels of emergency management in Liberia. This oversight occurred because of the Liberian’s mistrust of both their government and foreign aid groups, as well as the lack of cultural competency demonstrated by the aid groups. The health-care and emergency management infrastructure in Liberia appeared to be non-existent at the beginning of the EVD outbreak. However, there were resources available at the community level: the Liberians and their culture. Although these resources were rarely used, there were some instances in which communities were included in response efforts. It was in these instances that possible improvements to international disaster response protocol were found.

Keywords: public health education, global health, emergency management, response, mitigation, Ebola, Liberia

INTRODUCTION

Effective disaster management consists of a continuous cycle of four activities: mitigation, preparedness, response, and recovery (2). Liberia’s limited government and health-care infrastructure prevented both mitigation of hazards and preparedness for incidents. As a result, the response to the Ebola virus disease (EVD) outbreak was reactive rather than a coordinated effort of well thought out and exercised plans, policies, and procedures. Despite the fact that the outbreak’s management relied solely on response, key disaster management theories were disregarded throughout the international aid groups’ response to the outbreak.

Traditionally, incident response begins and ends at the local level (1, 2). It is when the resources of the localities are depleted that a scaled-up response occurs. Assistance is then requested by the local leaders (e.g., mayor, governor, etc.), prompting regional, state, federal, or international partners to become involved in response to supplement the locals. The issue in Liberia was that international aid groups supplanted rather than supporting the local level (3).

The utilization of local emergency response is a fundamental tenant of emergency management theory (4, 5). Organizing response through local groups is taught in many countries, including the United States, New Zealand, Canada, the United Kingdom, and many others (6). During the 2014 EVD response in Liberia, this practice was not actively utilized by international aid groups. Many potential resources were lost because of this oversight. The response to the EVD outbreak could have been improved by adapting traditional methods of emergency response to fit into the culture being served. Through the inclusion of cultural competency, historical knowledge, and involvement
of community leaders in emergency management, it may be possible to create a methodology of response that can be used in future international aid (7). The following paper will analyze the 2014 EVD response in Liberia and postulate how improvements could have been made via adherence to the hallmark theory of emergency management: response begins and ends locally.

**BACKGROUND**

The 2014 EVD outbreak differed from previous EVD outbreak in Africa for three main reasons: (1) the outbreak occurred in West Africa (index case was in Guinea), (2) the outbreak centered in an urban environment, and (3) the volume of people who contracted the virus was more than all other outbreaks combined (8). EVD spread rapidly throughout metropolitan Guinea, Sierra Leone, and Liberia (8). As of April 2016, West Africa had reported 28,616 cases of confirmed, probable, and suspected EVD infected persons with 11,310 resulting mortalities (9).

Liberia faced many challenges in their attempt to control EVD transmission. Their public health and medical infrastructure was decimated following two civil wars and political instability. In fact, of the 293 public health facilities in Liberia, only 51 survived the wars and only 30 physicians were left to serve over 3 million people (10, 11). A 2010 study of Liberia’s public health and medical infrastructure found that only 6 of 19 health facilities in 4 Liberian counties had cell phone or radio capability (12). This lack of infrastructure was unresolved in the months and years leading up to the EVD outbreak.

Since the end of the second civil war, Liberia has relied primarily on foreign aid and donations to finance their health budget and strengthen the county's infrastructure (10, 13). Most of the funding granted to the Liberian government was used to build the Liberian military in an effort to enforce political stability and promote national security for Liberian citizens (13). Unfortunately, this practice was viewed with suspicion by the Liberian public given the amount of civil unrest following the civil war.

Mistrust of Sirleaf’s administration by Liberians grew following her reelection. Many Liberians began to see similarities between her and other West African dictators. A stagnant education system, non-existent health-care infrastructure, unemployment rates as high as 80%, and the assignment of Sirleaf’s family members to important government positions contributed to this mistrust (13). Post-conflict Liberia has understandably continued to mistrust their government, despite a decade of attempts of international aid groups to reduce EVD transmission during the outbreak. At the most severe points of the outbreak in Liberia, all health-care facilities were overcrowded (14).

The trust of Liberian citizens was further challenged by the attempts of international aid groups to reduce EVD transmissions and their inability to treat ill patients. The establishment of health-care facilities in Liberia’s affected urban areas was necessary to both treat diseased patients and isolate infected ones. Many foreign countries, non-governmental organizations, and other aid groups independently built ETCs—an effort loosely coordinated through the Liberian Ministry of Health and Social Welfare (14).

**Medical-care Resources**

Furthermore, the rapid spread of EVD throughout urban areas of Liberia was perpetuated by a number of problems faced by both local and international responders. These problems compounded the outbreak by preventing effective isolation (the removal of infected individuals from a population) and quarantine (the removal of exposed individuals from a population) (2). The use of ETCs in Liberia and the rest of Western Africa was vital to the reduction of EVD transmission during the outbreak. At the most severe points of the outbreak in Liberia, all health-care facilities were overcrowded (14).

The first group to construct ETCs was Medecins Sans Frontieres (MSF). MSF had over 10 years of experience treating rural and technologically removed populations for EVD and Ebola-like diseases. ETC plans and supply lists were rapidly available when the EVD outbreak became evident. MSF ETCs were utilized effectively throughout the outbreak (14). Red Cross Red Crescent was similarly experienced in treating populations with EVD and was able to set up ETCs in September, 2014, early enough to effectively isolate and treat patients (14).

Mobile laboratories from the United States and the United Kingdom were established early enough in the outbreak to assist in the diagnosis of patients during the height of the outbreak (14). These labs aided in confirming EVD infection in patients (14). Additionally, the United Kingdom built mobile tents similar
of EVD, the importance of isolating the infected persons, and community education about transmission, signs, and symptoms. Campaigns implemented in Liberia during the outbreak included within their communities (14). Public health education campaigns implemented in Liberia during the outbreak included community education about transmission, signs, and symptoms of EVD, the importance of isolating the infected persons, and how early diagnosis and treatment benefits the ill ones (20, 21). However, according to Abramowitz et al. (16), most of these public health messages focused on making sure people knew that the EVD outbreak was occurring, and not on what people could do to protect themselves from infection in areas without a functioning health-care system. During the height of the outbreak, communities knew what EVD was and how it was spread but did not know how to continue working and living while the disease spread throughout the country (e.g., how to take care of family members, how to transport the ill to ETCs, and how to keep themselves safe when the stand-up EVD infrastructure failed) (16).

Since the Liberians were unable to depend on aid groups (either due to local mistrust or the aid groups’ lack of ability), West Africans learned from experience to protect themselves from infection through avoidance of strangers, isolation of the ill, and avoidance of contact with the dead (14). However, the establishment of this knowledge in these communities was severely delayed by limited information. The lack of education on self-sufficiency for communities extended the amount of time it took to control the spread of the virus.

RECOMMENDATIONS

Utilize Locals and Local Culture

In November 2014, Liberia’s Ministry of Health, the WHO, and the World Bank invited Liberians living in Liberia’s capital, Monrovia, to participate in focus groups (22). Through these discussions, the groups learned that locals did not support a planned incentive scheme (a reward of US$5 for every EVD case reported in Monrovia) but had input on solutions that would fit the needs of their communities within their cultural principles. For example, the provision of food to families in quarantine would encourage the public to comply with EVD transmission reduction policies. Additionally, ensuring communication between family members and patients in ETCs would make keeping track of loved ones more probable. Likewise, offering psychological support to those that have lost family members would help communities recover, and including EVD infection survivors in all levels of community recovery would reduce stigmatization of survivors throughout Liberia (8, 22).

Input from 386 Monrovian community leaders identified what a community-based approach to the EVD outbreak would look like if constructed when outside resources were delayed or unavailable (16). The study elucidated many points, as follows:

1. Input from community leaders discovered gaps in the state and international responses
2. Surveillance needed to begin within communities and by community members
3. Input from community leaders created plans that sustain existing social structures, culture, and conflict histories.

Understanding the culture of a community can be advantageous to containing the spread of EVD. For example, utilization of gendered roles within the communities at risk creates a more streamlined approach to community surveillance and treatment in the absence of a well-supported health infrastructure (16). Supporting men and women in their culturally allocated roles by educating women in the treatment of family members, quarantine procedures, and personal protection can reduce the strain put on Liberia’s limited number of health-care facilities (16). Likewise, assigning male community members leadership roles in Ebola Task Forces and Block teams can prevent the spread of EVD throughout communities. Furthermore, giving otherwise unemployed, bored, and scared young men surveillance and community supply management roles can help prevent social conflict by giving them a sense of purpose within the community. This involvement would also increase trust, program sustainability, and response capacity (23). In these ways, creating outbreak controls through response at a micro-social scale can be achieved.

Create Community-Developed Response Plans

This community-developed response plan should be expanded upon by aid groups. In order to utilize communities’ desire to autonomously help themselves, aid groups need to work with communities in order to successfully reduce morbidity and
The idea that communicating with community leaders during response efforts is beneficial to the overall outcome is supported by the actions of the Liberian Ministry of Health in the Fuamah District’s village of Mahawah (24). In this case, ambulance shortages prevented the removal of infected patients from their homes to ETCs, making community isolation necessary to prevent the spread of EVD to the rest of the district. Input from local leaders enabled the Fuamah District Ebola Taskforce to safely and effectively quarantine the entire village (24). The case study concluded that both the overall national response and individual communities benefited from the integration of community leaders in the planning of community quarantine (24).

**CONCLUSION**

Disaster and emergency management theory states that response should always begin and end at the local level. Throughout the international response to the EVD outbreak, response was handled from a level far above the community—a method that may have exacerbated the transmission of EVD rather than reduce it.

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The lack of medical and public health infrastructure in Liberia created a challenge for communities but not an impossible one to overcome. Working with community leaders to understand the culture of communities and ethnic groups, as well as utilizing the human resources available could create a flow of surveillance information, increase the number of treated patients, and reduce the transmission of infectious disease through education of the public in future infectious disease outbreak. Cultural competency is a field that both emergency management and public health need to expand upon—especially when key theories and policies pivot on the ability to utilize local resources. When we next need to respond to an outbreak—or any disaster—at an international level, it is recommended that response involves the communities being affected. Furthermore, their culture should be recognized as an asset to bridging any gap between aid groups and the people they serve. The case of Ebola in Liberia demonstrates the urgent need for an intervention approach to future events that are specifically designed based on the cultural and social norms within the affected community.

**AUTHOR CONTRIBUTIONS**

HS wrote the original draft of the article. CH and SD revised and corrected the original draft.

**ACKNOWLEDGMENTS**

The authors appreciate the contributions of Nicole La Tournous.

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**Conflict of Interest Statement:** The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.

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