Topic Collection: Emergency Public Information and Warning / Risk Communication

Disasters can have significant health impacts on communities and their residents. Effective communication is a key component to properly managing and responding to incidents of all sizes. Communication includes providing the public with information through verbal, written, or symbolic means. As the world watched the 2014 Ebola outbreak spread through West Africa and land on American soil, medical professionals trained in risk communications sprang into action to release timely and effective messages providing public awareness, and other important information such as symptoms to look for. Clear, concise messages provided by trusted leaders before, during, and after an incident can help residents feel more in control and persuade them to make important health-related decisions to help ensure their safety. Resources in this Topic Collection include lessons learned; education and training modules; results from studies conducted on the effectiveness of risk communications; and plans, tools, and templates that can be tailored to meet the specific threats and needs of healthcare and medical professionals.

Each resource in this Topic Collection is placed into one or more of the following categories (click on the category name to be taken directly to that set of resources). Resources marked with an asterisk (*) appear in more than one category.

Must Reads
At-Risk Populations
Education and Training
Evaluation
General Resources
Plans, Tools, and Templates: General
   Ebola and Flu
   Weather-Related
Rural/Frontier
Agencies and Organizations

Must Reads


   These tip sheets can help healthcare providers and community members recognize the symptoms associated with anthrax, blister and blood agents, botulism, nerve agents, plague, smallpox, and tularemia.

This toolkit, adapted from the Centers for Disease Control and Prevention’s materials, can help healthcare emergency communications planners draft new plans or update and implement existing plans. It includes chapters on crisis communications planning, direct public outreach, the standardized emergency management system, state and federal medical countermeasures, and hazards (including public health threats). It also includes several templates for creating communications materials and plans.


This website hosts the Centers for Disease Control and Prevention's crisis and emergency risk communication training modules, resources, shared learning materials (e.g., case studies), and social media links.


This evidence-based tool can help healthcare emergency communications staff create and assess communication products on a variety of topics for diverse audiences. Users are prompted to provide information about seven key communications areas (e.g., main message, behavioral recommendations) and the Index provides an overall score. Links to message development resources are also provided on this webpage.


This website provides links to resources geared towards disaster preparedness in culturally diverse communities. Materials are grouped into six main categories: Community, Type of Emergency, Resource Type, Language, U.S. Region, and those that fall under Multiple Categories.


The guidance in this document can help healthcare coalition members work with faith- and other community-based organizations to develop influenza-specific messages that reach traditionally difficult to reach audiences.


Jim Garrow is the author of this blog which covers emerging issues related to risk communication, social media, and health. He also serves as the Director of Digital Public Health at the Philadelphia Health Department.

This toolkit can help health communicators tasked with developing or updating heat-related health communication strategies. It features strategies for reaching specific audiences.


This 2.5 hour, interactive course teaches health communicators about the following topics: reactions the public might have during a public health emergency, effective communication strategies, how to communicate with the media, how to work with the community, and the importance of developing communication plans before an incident occurs.


The National Weather Service provides links to sources that provide tsunami event messages.


This document can help health communication staff learn about the key concepts of risk communication, how to share information about the first case of imported Ebola, and communications goals. It also includes templates that can be downloaded and customized.

Public Health – Seattle & King County and Northwest Center for Public Health Practice. (n.d.) Texting for Public Health: Emergency Communication, Health Promotion, and Beyond. (Accessed 6/1/2015.)

This easy-to-use, online toolkit helps public health and healthcare entities plan for and implement text messaging programs for use in emergencies and for more general health promotion. It covers topics such as why text messaging is effective, how to get people to subscribe, legal issues, and technological options.


In this series of webcasts, health communicators will learn about the role of health ministry in faith-based African-American communities, and strategies for sharing messages through faith-based organizations.

This webpage emphasizes the fact that learning more about the effects of past traumatic events on homeless people can help emergency responders communicate more effectively with this population during a disaster and encourage them to comply with public health directives.

**At-Risk Populations**


This course can help health communicators understand and address the challenges associated with reaching and engaging members of high-risk groups.


The author addresses the challenges public health agencies have when communicating risk to certain populations during a pandemic (e.g., distrust of government, existing health disparities). The author also suggests the use of a risk communication strategy based on community engagement, disaster risk education, and crisis and emergency risk communication to help prepare minority communities and government agencies to prepare, respond, and work together in a pandemic.


This website provides links to resources geared towards disaster preparedness in culturally diverse communities. Materials are grouped into six main categories: Community, Type of Emergency, Resource Type, Language, U.S. Region, and those that fall under Multiple Categories.


The guidance in this document can help healthcare coalition members work with faith- and other community-based organizations to develop influenza-specific messages that reach traditionally difficult to reach audiences.

The resources under this tab on EthnoMed’s website are geared towards people who work with immigrants (including refugees fleeing war-torn areas of the world) and those residents as well. There are links to resources on general emergency preparedness, fire safety, and disaster planning. Most of these documents are available in a wide variety of languages.


The organization provides links to many free, multilingual resources on health information (e.g., videos and handouts on topics such as carbon monoxide poisoning, emergency preparedness, shelter-in place, and sirens and telephone alerts).


The authors highlight factors that make some Latino populations more vulnerable to public health emergencies and list strategies health communicators can use to reach them more effectively.


Many health and emergency management practitioners plan and implement emergency and disaster preparedness activities that entail working with grassroots organizations serving low-income populations. This guide contains strategies that can help stakeholders more successfully deliver health-specific messages to those populations.

Public Health – Seattle & King County Advanced Practice Center. (2011, being revised in 2015). Meeting the Needs of Vulnerable Populations: Equity in Emergency Response. (Login required.)

This toolkit can help health department and healthcare facility staff better understand their customers, build relationships with other local agencies, work with translators, and conduct meetings to help prepare their communities for disaster.


The guidance in this document is geared towards helping healthcare agencies increase the number of members of at-risk groups who get vaccinated against flu. The authors identify the at-risk groups, summarize traditional communication issues, and provide strategies for developing immunization messages. The emphasis in on communications for an influenza pandemic, although the principles can be adapted to other contexts.

In this series of webcasts, health communicators will learn about the role of health ministry in faith-based African-American communities, and strategies for sharing messages through faith-based organizations.


The speakers in this webinar emphasize the importance of engaging the Latino community in preparedness and the need for disaster responder cultural awareness.


This webpage emphasizes the fact that learning more about the effects of past traumatic events on homeless people can help emergency responders communicate more effectively with this population during a disaster and encourage them to comply with public health directives.

**Education and Training**


This website hosts the Centers for Disease Control and Prevention's crisis and emergency risk communication training modules, resources, shared learning materials (e.g., case studies), and social media links.


This short, on-line course teaches health educators the basics of risk communication and overcoming challenges.


This short, on-line course teaches health educators about their role in crisis and emergency risk communication.

This course can help health communicators understand and address the challenges associated with reaching and engaging members of high-risk groups.


This webinar provides health communicators with the principles of risk communication and strategies for developing effective messages. Other topics include the role of the Public Information Officer and how risk communication fits into the Incident Command System.


This 2.5 hour, interactive course teaches health communicators about the following topics: reactions the public might have during a public health emergency, effective communication strategies, how to communicate with the media, how to work with the community, and the importance of developing communication plans before an incident occurs.


Health communicators will learn about the factors that influence how people view risk, how to develop and maintain trust and credibility in a crisis, best practices for culturally appropriate forms of risk communication (with a focus on partnerships), and the role of social media in risk communication.


Prepare Iowa created this interactive course to help health practitioners increase their ability to effectively communicate with the public, other practitioners, the response community, and the media during a public health emergency.
This practical training can help health communicators build the skills necessary for delivering first messages in the early hours of a disaster or public health emergency. This training was designed for trainers and self-directed individuals and group learners.


This introductory course can help participants learn about emergency risk communication principles and tools.

*Risk Communication for Community Health Centers*. University at Albany, School of Public Health.

This course is geared towards clinicians and managers in community practice sites who may interact with the public or the media during a public health emergency. Participants learn the basics of risk communication and how to create risk and crisis communication maps.


*University at Albany School of Public Health. (2013). *Latinos During Emergencies: Cultural Considerations Impacting Disaster Preparedness*. The speakers of this webinar emphasize the importance of engaging the Latino community in preparedness and the need for disaster responder cultural awareness.

University at Albany, School of Public Health. (2007). *Risk Communication & Psycho-Social Issues in Radiation Events*. Participants such as bioterrorism coordinators, clinical staff, and administrative personnel will learn to be better prepared to manage psychosocial reactions of communities and individuals, and to communicate effectively internally, between response partners, and with the public during radiological emergencies.

This online course takes participants through an interactive emergency scenario where they must make decisions, solve problems, and apply public health emergency principles.


The speakers in this training module teach participants how to apply risk communication principles and integrate them into daily and crisis communications.


In this course, participants will learn the principles of risk communication, how to recognize residents' reactions, and how to identify and respond to challenges associated with communicating risk.


In this course, participants will learn how to identify and work with members from other stakeholder groups to ensure consistent health risk communication before, during, and after an incident.


In this course, participants will learn how to identify and work with members from other stakeholder groups, as well as how to develop and use a health risk communication plan.

Evaluation


The authors of this study conducted 12 focus groups in Tulsa, OK to help the local public health department understand the community's level of awareness and develop effective messages about avian influenza.
The authors summarize a simulated pandemic scenario that health risk communicators from 17 Georgia districts participated in. The authors include strengths, challenges, and lessons learned in their summary.


The authors of this study examined qualitative data from focus groups held with 75 African American adults living in Los Angeles County to better understand their traditionally lower levels of trust in public health messaging regarding terrorism preparedness. They found that perceived honesty and consistency of information most frequently determined trust/distrust.


The authors share the results of a one-year study on an in-depth literature review conducted on emergency preparedness risk communication and public health messaging strategies. They also include a compilation of educational and outreach materials for emergency preparedness communication with at-risk populations, and discusses the findings of site visits in three states and the Washington, DC area to identify gaps in the practice of risk communication with at-risk populations.


The authors of this study analyzed telephone survey data and found that public health and healthcare risk communicators should personalize risk in order to build trust before a pandemic occurs. This personalized risk communication should also continue through all phases of response and recovery.


This article details how the Centers for Disease and Prevention modified their media monitoring system after the 9/11 incident and the anthrax incidents that followed.

The authors list the challenges associated with evaluating emergency risk communications and share sample evaluation resources and measures.


The authors propose a different approach when communicating to people when the objective is to motivate household disaster preparedness actions. Based on their study, they recommend emphasizing what to do about risk rather than sharing information about the actual risk.

**General Resources**


These tip sheets can help healthcare providers and community members recognize the symptoms associated with anthrax, blister and blood agents, botulism, nerve agents, plague, smallpox, and tularemia.


This webpage is geared towards medical risk communicators and emphasizes that fear and other emotions can interfere with community members' judgment and behavior, particularly during an Ebola outbreak. This makes it extremely important to evaluate and test messages before releasing them to the public, and tailor messages to various audiences (e.g., young people, limited or non-English speakers, the elderly).


This website shares Ebola-specific risk communication information and emphasizes that the disease is accompanied by public fear and outrage, making clear communication even more important. The site includes information about transmission, stigma (and countering stigmatization), and provides quick tips for communicators (e.g., be empathetic, provide positive action steps).

This book provides a summary of conference proceedings where risk communications experts discussed the public response to mobile alerts.


Jim Garrow is the author of this blog which covers emerging issues related to risk communication, social media, and health. He also serves as the Director of Digital Public Health at the Philadelphia Health Department.


The authors describe proceedings from a convention of 26 public information officers (PIOs), state health officials, journalists, and other communications experts. The most significant challenges mentioned by the participants were lack of coordination, the inability to efficiently evaluate and disseminate information, and confusion about the roles of the journalist and the PIO. The group developed a list of recommendations to address these challenges.


This report summarizes presentations provided at a 2012 workshop organized by the Committee on Public Response to Alerts and Warnings Using Social Media. Chapters cover the fundamentals of alerts, warnings, and social media; how social media is used in emergencies; the dynamics of social media; message credibility; privacy and legal issues; and research gaps and other challenges.


The authors provide an overview of the risk communication framework and emphasize the importance of building trust and credibility during a crisis to move the public towards positive action.

In this series of webcasts, health communicators will learn about the role of health ministry in faith-based African-American communities, and strategies for sharing messages through faith-based organizations.


The guidance in this document is geared towards helping healthcare agencies increase the number of healthcare professionals who get vaccinated against flu. The authors summarize research, identify existing gaps, describe different segments in the healthcare profession, and suggest strategies for communicating with healthcare providers and patients.


This webpage provides guidelines regarding the application of the Health Insurance Portability and Accountability Act during emergencies.


These messages were developed during the 2014 Ebola outbreak for risk communicators to share with community residents. The messages can be tailored to other hazards, and focus on risk minimization and tips for caring for/supporting relatives and community members.

Plans, Tools, and Templates: General


This toolkit, adapted from the Centers for Disease Control and Prevention’s materials, can help healthcare emergency communications planners draft new plans or update and implement existing plans. It includes chapters on crisis communications planning, direct public outreach, the standardized emergency management system, state and federal medical countermeasures, and hazards (including public health threats). It also includes several templates for creating communications materials and plans.
Centers for Disease Control and Prevention. (2014). The CDC Clear Communication Index. This evidence-based tool can help healthcare emergency communications staff create and assess communication products on a variety of topics for diverse audiences. Users are prompted to provide information about seven key communications areas (e.g., main message, behavioral recommendations) and the Index provides an overall score. Links to message development resources are also provided on this webpage.

Centers for Disease Control and Prevention. (2011). Using HealthMap's Web-Based Risk Analysis Tools Before and During Public Health Emergencies. The speakers in this webinar discuss the use of HealthMap (a mobile application that allows users to submit information related to local diseases or outbreaks) during the 2010 cholera outbreak in Haiti.

Group Health Research Institute. (2015). Program for Readability in Science and Medicine (PRISM). This free toolkit and training can help medical communicators learn how to use plain language and improve the readability of their messages. These resources are useful for healthcare and public health staff who need to translate data and other technical information for general audiences.

Kansas Department of Health and Environment. (2011). Public Information and Communications Standard Operating Guide. Local health department communicators can customize this template before and in response to a variety of scenarios such as mass prophylaxis dispensing, disease outbreaks, and acts of terrorism.

North Shore-LIJ Health System. (2014). Ebola Virus Disease (EVD) Preparedness Manual. Section VI of this manual focuses on external and internal communications, and can be tailored by emergency communications planners to other hazards.

This easy-to-use, online toolkit helps public health and healthcare entities plan for and implement text messaging programs for use in emergencies and for more general health promotion. It covers topics such as why text messaging is effective, how to get people to subscribe, legal issues, and technological options.

During the 2009 H1N1, the Santa Clara County Public Health Department’s server went down, and they activated their “Dark Site.” This toolkit can help healthcare facilities and related organizations create and maintain a public health emergency dark site (“a static Web page used to post critical public health emergency messages when a server goes down”).

This toolkit provides customizable operational strategies and tools that can help healthcare facilities create a surge plan to manage mass casualties. Tips for communicating with the public are included in the toolkit.

Based on lessons learned from actual events (e.g., the Oklahoma City bombing, 9/11, and Hurricane Katrina) this toolkit provides customizable operational strategies and tools that can help jurisdictions create a plan for managing mass fatalities. Tips for communicating with the public are included in the toolkit.

Healthcare practitioners in rural areas can use the strategies in this toolkit to communicate with their community during a variety of disasters including natural, biological, chemical, radiological, and mass vaccination/medical events.
This website contains links to one-page fact sheets for the general public on infectious diseases, chemical and biological agents, radiation, severe weather, natural disasters, and emergency preparedness and response. Each resource is available in seven languages; some are available in large type.

**Plans, Tools, and Templates: Ebola and Flu**


The Ebola-specific message maps in this document were created to help state health officials and other medical professionals respond to the most commonly asked questions about the virus.


This toolkit can help local health authorities develop public messaging before and during the influenza season. It includes background information, links to key resources, talking points, sample press releases, printable materials, and sample social media messages for Twitter and Facebook.


This document can help health communication staff learn about the key concepts of risk communication, how to share information about the first case of imported Ebola, and communications goals. It also includes templates that can be downloaded and customized.


The guidance in this document can help health risk communicators create and activate a national Ebola risk communication plan. The steps can also be customized for more local initiatives.


This document can help health communication staff design public announcements of a potential first case of Ebola in their country. The information can also be customized to suit local initiatives.
Plans, Tools, and Templates: *Weather-Related*


This toolkit can help health communicators tasked with developing or updating heat-related health communication strategies. It features strategies for reaching specific audiences.


The National Weather Service provides links to sources that provide tsunami event messages.


This toolkit can help local health authorities develop public messaging during periods of extreme heat. It includes key messages, talking points, sample press releases, fact sheets, sample social media messages for Twitter and Facebook, and links to related information in English and Spanish.


This toolkit can help local health authorities develop public messaging during a severe wildfire smoke event. It includes key messages, talking points, sample press releases, sample social media messages for Twitter and Facebook, and links to related information.


This toolkit can help local health authorities develop public messaging during a flood event. It includes information relevant to the actual event and the recovery period such as key messages, talking points, sample press releases, factsheets, links to key resources, and sample social media messages for Twitter and Facebook.


This toolkit can help local health authorities develop public messaging during periods of extreme cold weather. It includes key messages, sample press releases, factsheets, links to key resources, and sample social media messages for Twitter and Facebook.
Rural/Frontier


This article is a summary of a workshop on risk communication and message mapping in Kansas. The authors emphasize that in rural states, health workers should be able to communicate to the public from both a health and first responder perspective.


Healthcare practitioners in rural areas can use the strategies in this toolkit to communicate with their community during a variety of disasters including natural, biological, chemical, radiological, and mass vaccination/medical events.

Agencies and Organizations

Crisis and Emergency Risk Communication (CERC). http://emergency.cdc.gov/cerc/


The Peter M. Sandman Risk Communication Website. http://petersandman.com/

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