

Community Assessment for Public Health Emergency Response (CASPER) Examples and Trainings

CASPER Trainings and Videos

Name	Description	Reference
CASPER: Awareness Course	The goal of CASPER Awareness Course is to develop a basic understanding of what a Community Assessment for Public Health Emergency Response (CASPER) is and how it can be used following a disaster.	Iowa Department of Public Health, Institute for Public Health Practice, University of Iowa. (2020). <i>CASPER: Awareness Course</i> . Retrieved from: https://www.training-source.org/training/courses/CASPER%3A%20Awareness%20Course%20Scenario/detail
ASPPH Presents: Community Assessment for Public Health Emergency Response (CASPER) and the Development of Collect SMART: Survey Management and Response Tools for Assessing the Health of Your Community (Video)	Video on CASPER and survey management tool.	Association of Schools and Programs of Public Health. (2015). <i>ASPPH Presents: Community Assessment for Public Health Emergency Response CASPER</i> . Retrieved from: https://youtu.be/LA7wFSvOqnQ
Helpful Tips for a Successful CASPER	A quick refresher of key CASPER elements and steps; intended to supplement the CASPER toolkit.	Centers for Disease Control and Prevention. (2020). <i>Helpful Tips for a Successful CASPER</i> . National Center for Environmental Health, Division of Environmental Health Science and Practice. Retrieved from: https://www.cdc.gov/nceh/casper/docs/QuickReference_2016-508.pdf
CASPER Sampling Methodology Training Video	Training video about CASPER sampling methodology from the California Department of Public Health.	CDPH Training. (2019). <i>CASPER Sampling Methodology Training Video</i> . Retrieved from: https://www.youtube.com/watch?v=7FQ9pzJTGOY&feature=youtu.be
Community Assessment for Public Health Emergency Response Toolkit: Third Edition	CASPER has been shown to be a useful tool for assessing community needs throughout the disaster cycle and in non-disaster situations. To ensure data	Centers for Disease Control and Prevention (CDC). (2019). <i>Community Assessment for Public Health Emergency Response (CASPER) Toolkit: Third edition</i> . Retrieved from:

	<p>obtained are useful, it is important to adhere to the methodology described in this toolkit.</p>	<p>https://www.cdc.gov/nceh/casper/docs/CASPER-toolkit-3_508.pdf</p>
--	---	--

Presentations & Reports on use of CASPER		
<p>ASPPH Presents: Community Assessment for Public Health Emergency Response (CASPER) and the Development of Collect SMART: Survey Management and Response Tools for Assessing the Health of Your Community</p>	<ol style="list-style-type: none"> 1. Describe the purpose of Community Assessment for Public Health Emergency Response (CASPER). 2. Provide examples of how CASPER has been used for post-disaster assessments and routine community health needs assessments. 3. Discuss the mobile app and project management dashboard designed to expand local capacities to collect community health data 	<p>Association of Schools and Programs of Public Health. (2015). ASPPH Presents: Community Assessment for Public Health Emergency Response CASPER and the Development of Collect SMART: <i>Survey Management and Response Tools for Assessing the Health of Your Community</i>. Retrieved from: https://www.aspph.org/event/aspph-presents-community-assessment-for-public-health-emergency-response-casper-and-the-development-of-collect-smart-survey-management-and-response-tools-for-assessing-the-health-of-your-community/</p>
<p>Community assessment for public health emergency response (CASPER) following the August 24, 2014 South Napa earthquake, Napa and American Canyon, California—September, 2014.</p>	<p>Example of CASPER</p>	<p>California Department of Public Health (CDPH) and Napa County Public Health (NCPH). (2015). <i>Community assessment for public health emergency response (CASPER) following the August 24, 2014 South Napa earthquake, Napa and American Canyon, California—September, 2014</i>. Retrieved from: https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/CDPH%20Document%20Library/Napa%20CASPER%20report.pdf</p>

CASPER Examples/Case Studies

Article/Reference	Summary	Link
Community Assessment for Public Health Emergency Response (CASPER): An Innovative Emergency Management Tool in the United States	Demonstrate how inclusion of the Centers for Disease Control and Prevention’s Community Assessment for Public Health Emergency Response (CASPER) as a tool in Public Health Preparedness Capabilities: National Standards for State and Local Planning can increase public health capacity for emergency response	Schnall, A., Nakata, N., Talbert, T., Bayleygn, T., Martinez, D., Wolkin, A. (2017). Community Assessment for Public Health Emergency Response (CASPER): An Innovative Emergency Management Tool in the United States. <i>American Journal of Public Health</i> . Retrieved from: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5594388/
Hurricane Maria's Impact on Punta Santiago, Puerto Rico: Community Needs and Mental Health Assessment Six Months Post impact	Assessed the community needs and population health status for the low-income town of Punta Santiago, situated on the southeastern coast of Puerto Rico at the point where Hurricane Maria made landfall on September 20, 2017	Ferré, I., Negrón, S., Shultz, J., Kossin, J., Pantin, H. (2019). Hurricane Maria's Impact on Punta Santiago, Puerto Rico: Community Needs and Mental Health Assessment Six Months Post impact. <i>Cambridge University Press</i> , 13(1). Retrieved from: https://www.cambridge.org/core/journals/disaster-medicine-and-public-health-preparedness/article/hurricane-marias-impact-on-punta-santiago-puerto-rico-community-needs-and-mental-health-assessment-six-months-postimpact/766264A870CD2B46C99B6379D201896B
Community Assessment for Public Health Emergency Response following Hurricane Ike—Texas, 25-30 September 2008	The results of the assessment were presented, and an example of a type of public health epidemiological response to a disaster due to a natural hazard was provided.	Zane, D., Bayleyegn, T., Haywood, T., Wiltz-Beckham, D., Guidry, H., Sanchez, C., & Wolkin, A. (2010). Community Assessment for Public Health Emergency Response following Hurricane Ike—Texas, 25-30 September 2008. <i>Prehospital and Disaster Medicine</i> , 25(6),

		<p>503-510. Retrieved from: https://www.cambridge.org/core/services/aop-cambridge-core/content/view/2712E04F983FA35F435C8F6A1CDECABA/S1049023X00008670a.pdf/community_assessment_for_public_health_emergency_response_following_hurricane_iketexas_2530_september_2008.pdf</p>
<p>Use of Community Assessments for Public Health Emergency Response (CASPERs) to Rapidly Assess Public Health Issues — United States, 2003–2012</p>	<p>Data from CASPERs conducted from 2003 through 2012 were reviewed to describe uses of CASPER, ascertain strengths of the CASPER methodology, and highlight significant findings.</p>	<p>Bayleyegn, T. M., Schnall, A. H., Ballou, S. G., Zane, D. F., Burrer, S. L., Noe, R. S., & Wolkin, A. F. (2015). Use of Community Assessments for Public Health Emergency Response (CASPERs) to Rapidly Assess Public Health Issues - United States, 2003-2012. <i>Prehospital and disaster medicine</i>, 30(4), 374–381. Retrieved from: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4630127/</p>
<p>A modified Community Assessment for Public Health Emergency Response (CASPER) four months after Hurricane Sandy</p>	<p>This study used a modified multi-cluster household-level survey based on CASPER to follow longitudinally its initial findings and to track recovery.</p>	<p>Subaiya, S., Stillman, J., Pumpalova, Y. (2018). A modified Community Assessment for Public Health Emergency Response (CASPER) four months after Hurricane Sandy. <i>Disasters. Wiley & Sons, Inc</i>, 43(1). Retrieved from: https://onlinelibrary.wiley.com/doi/full/10.1111/disa.12299</p>

Publications

Community Assessment for Public Health Emergency Response (CASPER):

Schnall A, Ellis EM, Wolkin A, Roth J, Davis M. Addressing community preparedness through Community Assessments for Public Health Emergency Response (CASPERs) – U.S. Virgin Islands, 2017-2018. American Journal of Public Health [in press]

Seger K, Schnall A, Roth J, Ellis B, Ellis EM. [Community assessments for mosquito prevention and control experiences, attitudes, and practices—U.S. Virgin Islands, 2017 and 2018](#) MMWR 68(22);500-504

Schnall A, Roth J, Ellis B, Seger K, Davis M, Ellis EM. [Addressing community needs during the hurricane response and recovery efforts through Community Assessments for Public Health Emergency Response \(CASPERs\) – U.S. Virgin Islands, 2017-2018](#). Disaster Medicine and Public Health Preparedness: 2019, Vol 13, No. 1: 53-62.

Wolkin A, Schnall A, Ellis EM, Nakata N. [Getting the Message Out: Social Media and Word-of-Mouth as Effective Communication Methods during Emergencies](#) Prehospital and Disaster Medicine. Published online 26 Dec 2018

Fortenberry GZ, Reynolds P, Burrer SL, Johnson-Lawrence V, Wang A, Schnall A, Pullins P, Kieszak S, Bayleyegn T, Wolkin A. [Assessment of behavioral health concerns in the community affected by the Flint water crisis — Michigan \(USA\) 2016](#). Prehospital and Disaster Medicine: June 2018, Vol. 33, No. 3

Schnall A, Nakata N, Talbert T, Bayleyegn T, Martinez D, Wolkin A. [An innovative resource for public health emergency management: Community Assessment for Public Health Emergency Response \(CASPER\) as an emergency management tool in the United States](#). American Journal of Public Health

Bayleyegn T, Schnall A, Ballou S, Zane D, Burrer S, Noe R, Wolkin A. [Use of Community Assessments for Public Health Emergency Response \(CASPERs\) to Rapidly Assess Public Health Threats – United States, 2003-2012](#). Prehospital and Disaster Medicine 2015 30(4):374-81.

Nyaku M, Bies S, Stanbury M, Beggs J, McFadden J, Collins J, Schnall A, Wolkin A, Murti M, Bayleyegn T. Assessing Radiation Emergency Preparedness Planning by Using Community Assessment for Public Health Emergency Response (CASPER) Methodology — Oakland County, Michigan USA, 2012. Prehospital and Disaster Medicine 2014 29(3): 1-9.

Buttke D, Vagi S, Bayleyegn T, Schnall A, Morrison M, Allen M, Wolkin A. [Communication, information-seeking, and evacuation plans for a disaster in the Gulf Coast counties of Alabama and Mississippi, 2011](#) Journal of Emergency Management 2013 11(3): 213-223.

Buttke D, Vagi S, Schnall A, Bayleyegn T, Morrison M, Allen M, Wolkin A. [Community Assessment for Public Health Emergency Response \(CASPER\) one year following the Gulf Coast Oil Spill: Alabama and Mississippi, 2011](#). Prehosp Disaster Med 2012 27(6): 496-502.

Zane DF, Bayleyegn TM, Haywood TL, Wiltz-Beckham D, Guidry H, Sanchez C, et al. Community assessment for public health emergency response following Hurricane Ike – Texas, 25–30 September 2008. *Prehosp Disaster Med.* 2010;25(6):503–10.

Centers for Disease Control and Prevention (CDC). [Hurricane Ike rapid needs assessment – Houston, Texas, September 2008](#). *MMWR.* 2009;58(38):1066-71.

Disaster Morbidity and Mortality Surveillance:

Schnall A, Roth J, Ekpo L, Guendel I, Davis M, Ellis EM. [Disaster-related surveillance among United States Virgin Islands \(USVI\) shelters during the Hurricanes Irma and Maria](#). *Disaster Medicine and Public Health Preparedness*: 2019, Vol 13, No. 1

Schnall A, Hanchey A, Nakata N, Wang A, Jeddy Z, Alva H, Tan C, Casey-Lockyer M. Disaster-related Shelter Surveillance during Hurricanes Harvey — Texas, 2017. *Disaster Medicine and Public Health Preparedness*

Schnall A, Law R, Heinzerling A, Sircar K, Damon S, Yip F, Schier J, Bayleyegn T, Wolkin A. [Characterization of Carbon Monoxide Exposure During Hurricane Sandy and Subsequent Nor'easter](#). *Disaster Medicine and Public Health Preparedness*. 2017 April; 1-6.

Centers for Disease Control Prevention (CDC). [A Primer for Understanding the Principles and Practices of Disaster Surveillance in the United States: First edition pdf icon\[PDF – 9 MB\]](#). CDC: Atlanta GA 2016

Centers for Disease Control Prevention (CDC). *Planning for an Emergency: Strategies for Identifying and Engaging At-Risk Groups. A Guidance document for Emergency Managers: First edition.* CDC: Atlanta GA 2015

Wolkin A, Schnall A, Law R, Schier J. [Using Poison Center Data for Post-Disaster Surveillance](#). *Disaster Medicine and Public Health Preparedness* 2014 29(5): 521-524.

Chiu C, Schnall A, Mertzluft C, Noe R, Wolkin A, Spears J, Casey-Lockyer M, Vagi. [Mortality from a tornado outbreak – Alabama, 27 April 2011](#). *American Journal of Public Health* 2013 103(8): e52-e58.

Noe R, Schnall A, Wolkin A, Podgornik M, Wood A, Spears J, Stanley S. [Disaster-related Injuries and Illnesses Treated by American Red Cross Disaster Health Services during Hurricanes Gustav and Ike](#). *Southern Medical Journal* 2013 106(1): 102-108.

Centers for Disease Control and Prevention (CDC). [Tornado-related fatalities – Five states, southeastern United States, April 25–28, 2011](#). *MMWR.* 2012 61(28):529-33.

Schnall A, Wolkin A, Noe R, Hausman L, Wiersma P, Cookson R. [Evaluation of a Standardized Morbidity Surveillance Form for Use in Natural Disasters](#). *Prehosp Disaster Med.* 2011 26(2):90-98



Centers for Disease Control and Prevention (CDC). [Launching a National Surveillance System after an Earthquake – Haiti, 2010](#). MMWR. 2010;59(30):933-8.

Centers for Disease Control and Prevention (CDC). [Surveillance summary of carbon monoxide exposures in the wake of Hurricane Ike—Texas—September 2008 pdf ico pdf icon\[PDF – 954 KB\]](#). MMWR. 2009;58(31):845-9.