JOURNAL OF THE ACADEMY OF NUTRITION AND DIETETICS

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Food system organizations must strengthen their operations to safeguard against potential threats

Journal of the Academy of Nutrition and Dietetics: Researchers highlight factors that influence how effectively food suppliers and distributors can prepare for and respond to disasters

Philadelphia, December 6, 2018 – Food systems face growing threats as extreme weather events become more common and more extreme due to climate change. Events such as Hurricane Harvey in Texas and Hurricane Maria in Puerto Rico in 2017 have drawn attention to the havoc natural disasters can wreak. A new study from the Johns Hopkins Bloomberg School of Public Health, published in the *Journal of the Academy of Nutrition and Dietetics*, highlights characteristics of organizations involved in the food system that may lead them to be more prepared to respond to such disasters, and opportunities for local, state, and federal organizations to improve resilience across the urban food system.

Businesses and organizations involved in growing, distributing, and supplying food must be able to withstand and rebound from acute disruptions such as civil unrest and cyber attacks, as well as those with more gradual impact, such as drought, sea level rise, or funding cuts. Policymakers and researchers are in the early stages of considering ways to improve resilience to both natural and human-generated threats across the food system.

Amelie Hecht, a doctoral candidate in the Department of Health Policy and Management at the Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA, wanted to explore the following issues: what factors may be associated with organization-level food system resilience; how might these factors play out in disaster response; and how do they relate to organizations' confidence in their ability to withstand disruptive events?

The research was performed as part of a larger project led by Roni A. Neff, PhD, Assistant Professor, Center for a Livable Future, Department of Environmental Health & Engineering, Department of Health Policy and Management. Dr. Neff and colleagues interviewed representatives of 26 businesses and organizations in Baltimore that supply, distribute, and promote access to food. The organizations were asked about how they have tried to prevent, minimize, and respond to the effects of disruptive events like snowstorms and civil unrest in the past, and how they plan to address similar challenges in the future.

Researchers identified several factors that influence how resilient an organization is during times of emergency. They found that the organizations able to recover more quickly had ten characteristics in common: formal emergency planning; staff training; reliable staff attendance; redundancy of food supply, food suppliers, infrastructure, location, and service providers; insurance; and post-event learning after a disruptive event. Organizations that were large, well-resourced, and affiliated with national or government partners tended to display more of these characteristics.
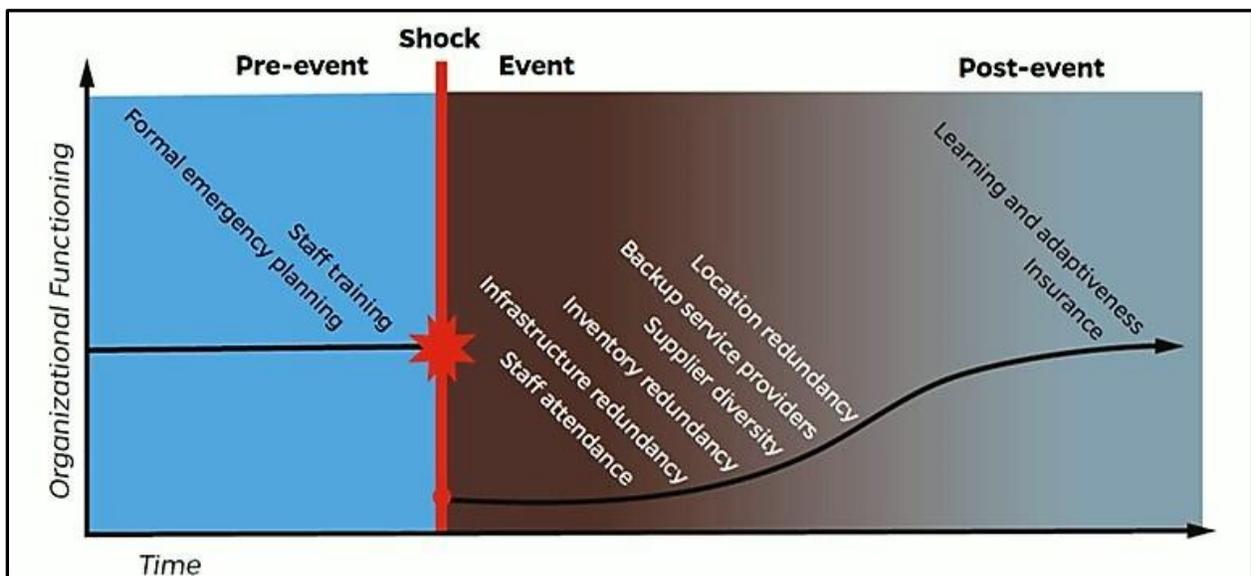
Caption: Ten factors identified through semi-structured interviews with food system stakeholders in Baltimore, MD that may impact food system organizational resilience, mapped along the resilience curve. Credit: Johns Hopkins Center for a Livable Future.

The authors conclude that a more resilient food system is needed in order to ensure all people have safe and reliable access to food following both acute and longer-term crises. They highlight several critical areas for targeted intervention by local, state, and federal governments, such as creating opportunities for smaller, less-resourced organizations to share information and pool resources. Further research is needed to add to an emerging understanding of the factors that contribute to resilience in order to help food system organizations, researchers, and government officials identify vulnerabilities in their regional food systems and strategies to improve food system resilience in the face of ongoing and growing threats.

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Notes for Editors
The article is "Urban Food Supply Chain Resilience for Crises Threatening Food Security: A Qualitative Study," by Amelie A. Hecht; Erin Biehl, MSPH; Daniel J. Barnett, MD, MPH; and Roni A. Neff, PhD (https://doi.org/10.1016/j.jand.2018.09.001). It appears in the *Journal of the Academy of Nutrition and Dietetics* published by Elsevier and is openly available.

Full text of this article is available to credentialed journalists upon request. Contact Eileen Leahy at +1 732 238 3628 or andjrnlmedia@elsevier.com to obtain copies. Journalists wishing to interview the authors should contact Roni A. Neff at +1 410 614 6027; RNeff1@jhu.edu or Amelie Hecht at AHecht3@jhu.edu.

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