



All disasters — climate change, pandemics, hurricanes, earthquakes, hazardous materials exposures, and floods — have health and medical impacts that require strategic and operational preparedness planning, careful resource management, thoughtful evaluation of responses, and meticulous information sharing and analysis across all stakeholders, public and private.



MDB has decades worth of experience in healthcare preparedness, disaster management, field medical operations, designing and facilitating exercises, and public health policy analysis. Our years of working for and with federal, state, and local public health officials allows us to provide support that is tailored to the specific needs of our clients. We understand the need for private-public partnerships that solve the most pressing problems facing communities following disasters. MDB staff has included the field medical providers, the local public health practitioners, the federal planners, and the federal and state government policy strategists. We have helped advance health equity, environmental justice, worker safety and health, community resilience, and multidisciplinary integrated approaches.

Our knowledge areas in emergency public health services include the following:

Public Health and Medical Preparedness, Response, and Recovery

- Health care system preparedness
- Infectious disease outbreaks management
- Medical countermeasure stockpiling, distribution, and dispensing

Training and Education

- Conducting research to support curriculum development in adult education
- Preparing disaster guidance and training content in multiple languages
- Engaging communities on hazard and public health protections

Communications and Resource Development

- Creating safety guides, infographics, and modules for disaster workers
- Developing and managing disaster preparedness mobile apps
- Developing technical and public health outreach materials

Performance Management and Program Evaluation

- Strategic advisory services
- Systemwide gap analyses
- Smart technology integration

OUR CLIENTS

MDB has supported emergency public health-related projects for various public, private, and nongovernmental clients responding to various public health emergencies including:

- Anthrax outbreak
- Ebola virus
- Fukushima Daiichi nuclear disaster
- COVID-19, H1N1 Pandemics
- Hurricanes Maria (2017), Sandy (2012), Ian (2022)

Representative case studies of MDB’s emergency public health mission support include:

PENNSYLVANIA COVID-19 RESPONSE

In response to the COVID-19 pandemic, Kevin Yeskey, M.D., MDB Senior Public Health Consultant, served as a senior public health and medical advisor to the State of Pennsylvania Secretary of Health to review the state’s ongoing COVID-19 response and to identify gaps and challenges to mitigate surges of COVID-19 cases. MDB assessed the state’s Department of Health incident command structure, the function of the operations center, relationships among state response organizations, interactions with the federal government, personnel needs, personal protective equipment requirements, and status of the state health care response.



HEALTHCARE COALITIONS EMERGENCY OPERATIONS PLAN AND EXERCISES IN PENNSYLVANIA

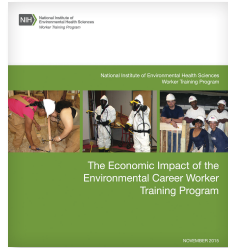
MDB supported a variety of healthcare coalition activities to include healthcare coalition exercises and the development of an Emergency Operations Plan. MDB used established Department of Homeland Security training and planning guidelines and engaged local stakeholders from emergency management to develop comprehensive and realistic exercises that reflect local practices.

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CONTINUED FROM OTHER SIDE

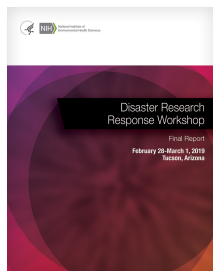
NIEHS WORKER TRAINING PROGRAM

Since 2000, MDB has supported the National Institute for Environmental Health Sciences (NIEHS) Worker Training Program, a grant program that trains workers engaged in activities related to hazardous materials and waste generation, removal, containment, transportation, and emergency response. MDB has supported the development and delivery of disaster-specific training to prepare workers in these fields. MDB has spearheaded resources, outreach, and training materials throughout the COVID-19 pandemic. We launched a COVID-19 informational webinar series and developed a number of different COVID-19 training resources. MDB also developed the Material Upload and Search Tool for Infectious Disease (MUSTID), an online portal and database that contains pertinent articles, guidance documents, and other resources related to infectious diseases.



DISASTER RESEARCH RESPONSE PROGRAM

For nearly a decade, MDB has supported the National Institutes of Health Disaster Research Response Program (DR2), which provides tools, training, and funding to empower human health research in response to disasters and public health emergencies. MDB developed a DR2 Concept of Operations that outlines responsibilities for the preparation and deployment of a research team following a disaster and describes integration of DR2 into the national framework of disaster response and recovery. MDB assisted NIEHS with developing, organizing, facilitating, and evaluating workshops and training workshops in Los Angeles, Houston, Boston, and Tucson that brought together scientists, community leaders, and representatives from industry and state and local health organizations.



MDB IN PEER-REVIEWED JOURNALS AND CONFERENCES

- Op-Ed: **"COVID shows US needs stronger legislation for effective public health agencies,"** The Hill, Feb. 11, 2021.
- Op-Ed: **"New models for pandemic response can be found in existing agencies,"** The Hill, May 13, 2021.
- **"What's Next for Healthcare Coalitions: Perspectives on the Future,"** Panel Moderator at the National Healthcare Coalition Preparedness Conference, November 30 –December 2, 2021, Orlando, FL.
- **"Creating and Optimizing Training for Adult Learners: A Healthcare Emergency Management Perspective,"** for the Association of Healthcare Emergency Preparedness Professionals (AHEPP) Webinar, November 8, 2022.
- **"Urban Flooding and the Health Risks to Recovery Workers,"** Panel Moderator and Presenter for the NIEHS Worker Training Program (WTP) Webinar, November 14, 2022.

OFFICE OF THE ASSISTANT SECRETARY FOR PREPAREDNESS AND RESPONSE

MDB has supported the Department of Health and Human Services' Office of the Assistant Secretary for Preparedness and Response (ASPR) across multiple public health emergency events, including Ebola, hurricanes, and the current COVID-19 public health crisis. Following hurricane events, MDB provided public health specialists to work on-site in Puerto Rico, Texas, and Florida to assist with the long-term recovery of the public health and medical infrastructure. During the COVID-19 pandemic, MDB has supported ASPR with information management and medical logistics specialists to support the HHS Secretary's Operations Center and the Strategic National Stockpile, respectively.

PRIVATE SECTOR

MDB has provided strategic and technical public health and medical analysis to pharmaceutical and device companies developing products for commercial markets and possible inclusion in government stockpiles. Our support services to private firms include strategic planning, assessment of potential needs by the government based on threat assessments, review of scientific needs, and evaluation of operational considerations for use.



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MDB holds a GSA Multiple Award Schedule: Contract 47QRAA20D0028, that allows us to offer a wide range of professional services to the U.S. federal government.

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