



Medical Product Shortages during Disasters: Opportunities to Predict, Prevent, and Respond

A Workshop

Final Agenda

Wednesday, September 5, 2018 – Thursday, September 6, 2018

National Academy of Sciences Building – Fred Kavli Auditorium
2101 Constitution Avenue, N.W., Washington, D.C., 20418

Workshop Objectives

- Explore the current evidence base on the causes and effects of medical product shortages that result from disasters or other public-health emergencies on patient care, patient outcomes, and provider resource allocation and availability.
- Discuss current efforts and innovative approaches to better predict, prevent, and respond to medical product shortages that result from disasters or other public-health emergencies.
- Examine strategies to ensure public health and health care providers can provide high-quality patient care during shortages of medical product shortages.
- Identify research needs and opportunities to provide public-health officials and the general public with accurate information to support policy-making and decision-making to improve patient care.

NOTE: Breakfast and lunch will be on your own. Light refreshments will be available at the morning and afternoon breaks. Planning committee members and speakers should see registration staff for additional details.

Day 1 – September 5, 2018

Session I Welcome and Overview of the Workshop

8:30 a.m. Chair Welcome

W. Craig Vanderwagen, *Workshop Chair*
Co-Founder and Director
East West Protection, LLC

8:45 a.m. Opening Keynote

Kevin Yeskey
Principal Deputy Assistant Secretary for Preparedness and Response
Office of the Assistant Secretary for Preparedness and Response
Department of Health and Human Services

Session II

Causes and Effects of Medical Product Shortages

Objectives

- Overview the supply chain and production of medical products, focusing on common disruptions that contribute to medical product shortages and their causes.
- Consider how public health emergencies exacerbate existing disruptions in the supply chain.
- Discuss the economic drivers contributing to medical product shortages
- Examine the current state of medical product shortages in the U.S. and how these shortages impact various stakeholder groups, including patients, caregivers, providers, and other vulnerable populations.
- Explore how medical product shortages during a public health emergency may contribute to medical errors, health care quality, patient and provider safety, provider resource allocation, and cost

9:15 a.m.

Panel Discussion I: Establishing a Shared Understanding of Medical Product Shortages – A Complex Challenge

Moderator: *W. Craig Vanderwagen, Workshop Chair*
Co-Founder and Director
East West Protection, LLC

Speakers:

Douglas Throckmorton

Deputy Director for Regulatory Programs
Center for Drug Evaluation and Research
Food and Drug Administration
Department of Health and Human Services

Ernst R. Berndt

Professor, Applied Economics
Massachusetts Institute of Technology

Scott Knoer

Chief Pharmacy Officer
Cleveland Clinic

James Callahan

Senior Director, Global Business Resilience
Enterprise Risk Management
AmerisourceBergen

10:15 a.m.

Audience Q&A

10:45 a.m.

BREAK

11:00 a.m.

Panel Discussion II: Effects of Medical Product Shortages on Patients, Providers, and Systems

Moderator: Linda Rouse O’Neill
Vice President, Government Affairs
Healthcare Industry Distributors Association

Speakers:

Mike Bowen
Spokesperson, Secure Mask Supply Association
Executive Vice President
Prestige Ameritech

Steven Krug
Head, Pediatric Emergency Medicine
Professor of Pediatrics, Northwestern University Feinberg School of
Medicine
Chair of the Disaster Preparedness Advisory Council, American Academy
of Pediatrics

Allen J. Vaida
Executive Vice President
Institute for Safe Medication Practices

Bonnie Levin
Corporate Assistant Vice President, Pharmacy Services
MedStar Health

James Robinson
Assistant Chief, Paramedic Division
Denver Health Emergency Medical Services

12:00 p.m. Audience Q&A

12:30 p.m. LUNCH

Session III Predicting, Preventing, and Responding to Medical Product Shortages: Current Efforts and Challenges

- Objectives**
- Overview the strengths and limits of current efforts used to monitor, prevent, and control medical product shortages
 - Discuss the advantages and disadvantages of the complex and multisector nature of medical product development
 - Examine different stakeholder roles and evidence needs to support decision making and identify shared goals to prevent, predict, and respond to shortages
 - Identify the challenges and gaps to predicting, preventing, and responding to shortages

1:30 p.m. Panel Discussion III: Current Efforts to Predict, Prevent, and Respond

Moderator: Sara Roszak

Senior Director, Research Programs
National Association of Chain Drug Stores

Speakers:

Keagan Lenihan

Associate Commissioner, Strategic Initiatives
Food and Drug Administration
Department of Health and Human Services

Mary Kosinski

Chief of Staff and Deputy Vice President
Science & Regulatory Advocacy
Pharmaceutical Research and Manufacturers of America

Karla Miller

Vice President, Pharmacy Services and Clinical Therapeutics
Clinical Services Group
Hospital Corporation of America

Patrick Byrne

Logistics Management Specialist
Biomedical Advanced Research and Development Authority
Office of the Assistant Secretary for Preparedness and Response
Department of Health and Human Services

François Sallans

Chairman of the International Society for Pharmaceutical Engineering Drug
Shortages Committee
Chief Quality Officer of Johnson & Johnson

2:30 p.m.

Audience Q&A

3:00 p.m.

BREAK

3:15 p.m.

Panel Discussion IV: Gaps and Challenges

***Moderator:* Nicolette Louissaint**

Executive Director
Healthcare Ready

Speakers:

Brad Noe

Global Manager, Technical Resources Hypodermic Business
Becton Dickinson

Michael Ganio

Director, Pharmacy Practice and Quality
American Society of Health-System Pharmacists

Eric Goralnick

Medical Director, Emergency Preparedness and Access Center
Brigham Health

James Grant

Chair, Anesthesiology, Beaumont Health
President, American Society of Anesthesiologists

Elizabeth Jungman

Director, Public Health
Pew Charitable Trust

4:00 p.m. Audience Q&A

Session IV Scenario-based Facilitated Discussion

Description

- A fictional medical product shortage scenario will be introduced and panelists and workshop participants will be asked to answer questions about how they would adapt to this situation.

4:15 p.m. Medical Product Shortage Scenario

Moderator: Matthew Wynia

Director, Center for Bioethics and Humanities
Professor of Medicine
University of Colorado

Speakers:

James Hodge

Professor, Public Health Law and Ethics
Director, Center for Public Health Law and Policy
Sandra Day O'Connor College of Law

Lewis Rubinson

Professor of Medicine
University of Maryland
Vice President, Deputy Chief Clinical Officer
University of Maryland Medical Center

Monique K. Mansoura

Executive Director, Global Health Security and Biotechnology
The MITRE Corporation

Sheri Fink

Author, *Five Days at Memorial*

Session V

Day 1 Wrap-Up

5:15 p.m.

Chair's Reflections and Preview of Day 2

W. Craig Vanderwagen, *Workshop Chair*
Co-Founder and Director
East West Protection, LLC

5:30 p.m.

Networking Reception for Workshop Participants

Day 2 – September 6, 2018

Session VI Welcome to Day 2

8:30 a.m. Welcome and Recap of Day One

W. Craig Vanderwagen, *Workshop Chair*
Co-Founder and Director
East West Protection, LLC

Session VII Perspectives from Invited Discussants and Other Sectors

Objectives

- Reflect on Day 1 discussions with invited discussants and workshop participants
- Explore lessons learned and identify best practices from other sectors about how they predict, prevent, and respond to shortages

8:45 a.m. Panel Discussion V: Reflections from Day 1 with Invited Discussants and Workshop Participants

Moderator: **W. Craig Vanderwagen**, *Workshop Chair*
Co-Founder and Director
East West Protection, LLC

Speakers:

Linda Rouse O'Neill
Vice President, Government Affairs
Healthcare Industry Distributors Association

Aisha Liferidge
Associate Professor, Emergency Medicine and Health Policy
George Washington University School of Medicine and Health Science
American College of Emergency Physicians

Cheryl Petersen-Kroeber
Director, Emergency Preparedness and Response
Minnesota Department of Health
Association of State and Territorial Health Officials

Christopher Hoff
Assistant Director, Community Health Resources
DuPage County Health Department

9:30 a.m. Panel Discussion VI: Learning from Other Fields

Moderator: **Mary Ann Veitch**
Director of Planning

East West Protection, LLC

Speakers:

Jarrod Goentzel

Director, Humanitarian Supply Chain Lab
Center for Transportation and Logistics
Massachusetts Institute of Technology

Prashant Yadav

Visiting Scholar, Harvard Medical School
Strategy Leader-Supply Chain, Bill & Melinda Gates Foundation

Ozlem Ergun

Professor, Mechanical and Industrial Engineering
Northeastern University

Eric Choy

Chief, Chemical Industry Sector
Department of Homeland Security

10:30 a.m. **Audience Q&A**

10:45 a.m. **BREAK**

Session VIII Potential Predictive, Prevention, and Response Improvements

Objectives

- Identify existing or novel methods, investments, and incentives to prevent shortages
- Discuss opportunities and priorities to improve the prediction and prevention of and response to shortages to ensure an ethical and compassionate response
- Consider best practices for early, effective, and ongoing communication of shortages across stakeholders

11:00 a.m. **Panel Discussion VII: Potential Predictive Improvements**

Moderator: Erin Fox

Senior Director, Drug Information and Support Services
University of Utah

Speakers:

Julie Swann

Department Head and A. Paul Allison Distinguished Professor
North Carolina State University
Co-Founder, Center for Health and Humanitarian Systems
Georgia Tech

Aleda Roth
Burlington Industries Distinguished Professor, Supply Chain Management
Clemson University

Dani Peters
President
Magnet Strategy Group

Amy Kircher
Assistant Professor, College of Veterinary Medicine
University of Minnesota

11:45 a.m. Audience Q&A

12:00 p.m. LUNCH

1:00 p.m. Panel Discussion VIII: Potential Prevention Improvements

Moderator: Sheldon Jacobson
Founder Professor of Computer Science
University of Illinois at Urbana-Champaign

Speakers:

Rena Conti
Associate Professor
Boston University

Robin Robinson
Deputy Assistant Secretary and Director (Ret.)
Biomedical Advanced Research and Development Authority
Department of Health and Human Services

Anita Patel
Senior Advisor
Pandemic Medical Care and Countermeasures Lead, Influenza Coordination
Unit
Centers for Disease Control and Prevention
Department of Health and Human Services

Evren Ozkaya
Founder and Chief Executive Officer
Supply Chain Wizard, LLC

1:45 p.m. Audience Q&A

2:00 p.m. BREAK

2:15 p.m. Panel Discussion IX: Potential Response Improvements

Moderator: Karen Remley

Senior Fellow
de Beaumont Foundation

Speakers:

Maryann Mazer-Amirshahi
Emergency Medicine Physician
MedStar Washington Hospital Center

Greg Burel
Director, Division of Strategic National Stockpile
Centers for Disease Control and Prevention
Department of Health and Human Services

Laura Wolf
Director, Division of Critical Infrastructure Protection
Office of the Assistant Secretary for Preparedness and Response
Department of Health and Human Services

Frank DeLuccia
Vice President, Global CMC Regulatory Affairs
Janssen Research and Development
Johnson & Johnson

3:00 p.m. **Audience Q&A**

Session IX **Closing Remarks**

3:15 p.m. **Closing Remarks**

Robert Kadlec
Assistant Secretary for Preparedness and Response
Department of Health and Human Services

3:45 p.m. **Day 2 Wrap-Up**

W. Craig Vanderwagen, *Workshop Chair*
Co-Founder and Director
East West Protection, LLC

4:00 p.m. **ADJOURN**