



Defining and Evaluating In-Home Drug Disposal Systems for Opioid Analgesics- A Workshop

June 26, 2023, 9:00 am – 5:30 pm (ET) June 27, 2023, 8:30 am – 1:00 pm (ET)

National Academies Keck Center, Room 100 500 5th Street NW, Washington, DC 20001

Join online <u>HERE</u>.

PURPOSE

This public workshop, convened by the National Academies' Forum on Drug Discovery, Development, and Translation will provide a venue for stakeholders to discuss the development and use of in-home drug disposal systems with a focus on removing unused opioid analgesics from the home.

The public workshop will feature invited presentations and discussions to:

- Explore the types of in-home drug disposal systems, other than mail back envelopes, that could be used to remove unused opioid analgesics from the home.
- Examine the current landscape of laws and regulations that apply to-in home drug disposal systems.
- Discuss scientific, behavioral, health equity, and policy considerations for assessing the safety, use, and effectiveness of in-home drug disposal systems, including the following questions:
 - What is known/unknown about the methods (e.g., sequestration, adsorption, absorption) used in in-home disposal systems for rendering opioids unavailable for nonmedical use assuming the product is used as intended?
 - What approaches/methodologies are needed to evaluate the safe and correct use of in-home drug disposal systems in real-world settings?
 - How could person-centered design inform the development and use of in-home drug disposal systems?
- Consider potential strategies for encouraging and assessing the development and use of in-home drug disposal systems that support the public health goal of mitigating the risk of nonmedical use or overdose associated with opioids.

DAY 1: MONDAY, JUNE 26, 2023

9:00 am WELCOME

ALASTAIR WOOD, *Workshop Co-chair* Professor of Medicine Emeritus Vanderbilt University

9:05 am FDA AUTHORITY FOR IN-HOME OPIOID DISPOSAL

MARTA SOKOLOWSKA Deputy Center Director for Substance Use and Behavioral Health Center for Drug Evaluation and Research U.S. Food and Drug Administration

9:15 am FIRESIDE CHAT: LIFECYCLE OF PRESCRIBED OPIOIDS

ROBERT HOFFMAN, *Speaker* Professor, Department of Emergency Medicine New York University Grossman School of Medicine

BETH MCGINTY, *Workshop Co-chair, Moderator* Chief, Division of Health Policy and Economics Professor, Department of Population Health Sciences Weill Cornell Medicine

9:55 am Session I: Envisioning Disposal Systems to Remove Opioids from the Home

Session Objectives:

- Describe the properties or characteristics that an ideal in-home disposal system might possess such that it minimizes barriers to patient use.
- Consider under what circumstances people will use an in-home disposal system, with a focus on conditions that impede use and how those can be overcome.
- Discuss how human-centered design can inform the goals, development, and use of in-home disposal systems.
- Discuss health equity considerations developing and implementing in-home disposal systems.

9:55–10:15 Presentation

LAURA BIX

Assistant Dean for Teaching, Learning and Academic Analytics Michigan State University College of Agriculture & Natural Resources

10:15–11:15 Panel Discussion

RUCHI FITZGERALD, *Moderator* Assistant Professor, Rush University Service Chief of Inpatient Addiction Medicine, PCC Community Center

Panelists Health Care Innovation Perspective ANISH AGARWAL Assistant Professor of Emergency Medicine University of Pennsylvania Perelman School of Medicine

Behavioral Science Perspective KATHLEEN EGAN Assistant Professor, Health Education and Promotion East Carolina University College of Health and Human Performance

Consumer/Patient Perspective

LINDSAY BARAN Senior Research Director Health Care Evaluation Department NORC at University of Chicago

Opioid Stewardship Perspective LYEN HUANG Assistant Professor of Surgery University of Utah Spencer Fox Eccles School of Medicine

11:15–11:45 Coffee Break (30 minutes)

11:45 am Session II: REGULATORY LANDSCAPE FOR HOUSEHOLD OPIOID DISPOSAL

Session Objectives:

- Examine the current landscape of laws and regulations that apply to-in home drug disposal systems.
- Explore the role of state and local policies on drug disposal and how FDA regulations may interact with those policies, including any unintended consequences.
- Consider the intersection of federal, state, and local waste disposal polices regarding the use of in-home disposal systems for opioid analgesics.

11:45–12:05 Presentation

HANZ ATIA Associate, Policy and Programs Product Stewardship Institute

12:05-1:05 Panel Discussion

LEWIS GROSSMAN, *Moderator* Professor American University College of Law

Panelists **EPA Regulatory Perspective** KRISTIN FITZGERALD Environmental Protection Specialist Office of Resource Conservation and Recovery U.S. Environmental Protection Agency

State Drug Disposal Policy Perspective MARY KELLINGTON Safe Medication Return Program Manager Washington State Department of Health

FDA Regulatory Perspective

PATRICK RAULERSON Senior Regulatory Counsel Center for Drug Evaluation and Research U.S. Food and Drug Administration

Federal Opioid Policy Perspective UTTAM DHILLON Partner Michael Best & Friedrich LLP

1:05–2:00 Lunch Break (55 minutes)

2:00 pm Session III: Scientific Considerations for In-Home Opioid Disposal

Session Objectives:

- Identify ideal characteristics of an in-home disposal system from a mechanistic, safety, and environmental perspective.
- Explore the scientific considerations for in-home drug disposal systems that could be used to remove unused opioid analgesics from the home.
- Discuss what is known/unknown about available and developing methods (e.g., sequestration, adsorption, absorption) by which in-home disposal systems work, assuming the product is used as intended.
- Discuss scientific approaches for assessing and gathering data on the environmental impact for in-home drug disposal systems.

2:00–2:20 Presentation

MARGARET SHIELD Owner and Principal Community Environmental Health Strategies LLC

2:20–3:20 Panel Discussion

JESSICA YOUNG, *Moderator* Chief, Recycling and Generator Branch U.S. Environmental Protection Agency

Panelists Opioid Chemistry Perspective ANDREW COOP Professor, Pharmaceutical Sciences Associate Dean for Academic Affairs University of Maryland School of Pharmacy

Toxicology Perspective

KAITLYN BROWN Clinical Managing Director America's Poison Centers

FDA Perspective

MARTA SOKOLOWSKA Deputy Center Director for Substance Use and Behavioral Health Center for Drug Evaluation and Research U.S. Food and Drug Administration

Environmental Chemistry Perspective PAUL BRADLEY Project Lead Drinking-Water and Wastewater Infrastructure Integrated Science Team Ecosystems Mission, Environmental Health Program U.S. Geological Survey

3:20-3:50 Coffee Break (30 minutes)

3:50 pm Session IV: Real-World Use and Implementation of In-Home Opioid Disposal Systems

Session Objectives:

- Consider what approaches/methodologies are needed to evaluate the safe and correct use of inhome drug disposal systems in real-world settings.
- Explore approaches for engaging consumers on how to use in-home disposal systems safely and as intended.
- Consider best practices to promote safe and effective use of in-home disposal systems, including the roles of clinicians, prescribers, and pharmacists.
- Discuss use studies to lay out tangible examples of unintended consequences.

3:50-4:10 Presentation

CHAD BRUMMETT Bert N LaDu Professor of Anesthesiology Co-Director, Opioid Research Institute Co-Director, Opioid Prescribing Engagement Network University of Michigan

4:10-5:20 Panel Discussion

MARK BICKET, *Moderator* Assistant Professor, Department of Anesthesiology Director, Pain & Opioid Research, Institute for Healthcare Policy and Innovation University of Michigan Medical School

<u>Panelists</u>

Implementation Perspective ANDREA TSATOKE Injury Prevention Specialist Indian Health Service, Headquarters

Program Evaluation Perspective

ELEANOR LEWIS Deputy Director, Program Evaluation & Resource Center U.S. Department of Veterans Affairs

REMS Design & Implementation Perspective

JAMES SHAMP Vice President for Data Intelligence & Program Analytics United BioSource LLC

Retail Pharmacy Perspective

KEVIN NICHOLSON Vice President, Public Policy, Regulatory, and Legal Affairs National Association of Chain Drug Stores

Behavioral Science and Communication Perspective TAMAR KRISHNAMURTI Assistant Professor, Medicine and Clinical and Translational Science Department of Medicine Center for Research on Health Care University of Pittsburgh

5:20 pm DAY 1 SUMMARY REMARKS

ALASTAIR WOOD, Workshop Co-chair

END OF DAY 1

DAY 2: TUESDAY, JUNE 27, 2023

8:30 am DAY 2 OPENING REMARKS

BETH MCGINTY, Workshop Co-chair

8:50 am RISK EVALUATION AND MITIGATION STRATEGIES: AN OVERVIEW

LYNN MEHLER Practice Area Lead, Pharmaceuticals & Biotechnology Hogan Lovells LLP

9:15 am Session V: THE ROLE OF IN-HOME OPIOID DISPOSAL

Session Objectives:

- Consider the role of an ideal in-home disposal system in addressing the public health goal of mitigating the risk of nonmedical use or overdose associated with opioids.
- Discuss how previous workshop discussions may inform the design, implementation, and evaluation of in-home disposal systems.
- Consider data needs and practical approaches for assessing the use and effectiveness of disposal systems in real-world settings.

9:15-9:35 Presentation

KATHLEEN EGAN Assistant Professor, Health Education and Promotion East Carolina University College of Health and Human Performance

9:35-10:45 Panel Discussion ROBERT MORONES, *Moderator* Injury Prevention Coordinator Indian Health Service (Phoenix Area) U.S. Department of Health & Human Services

Panelists Pediatric Injury Prevention Perspective CHRISTOPHER GAW Pediatric Emergency Medicine Fellow Associate Fellow, Center for Injury Research and Prevention Children's Hospital of Philadelphia

Overdose Prevention Perspective

JEFF HORWITZ Chief Executive Officer SAFE Project

Harm Reduction Perspective SUSAN SHERMAN Bloomberg Professor of American Health Department of Health, Behavior and Society Johns Hopkins Bloomberg School of Public Health

National Institute on Drug Abuse Perspective WILSON COMPTON Deputy Director, National Institute on Drug Abuse National Institutes of Health

10:45-11:15 Coffee Break (30 minutes)

11:15 am SYNTHESIS DISCUSSION

Purpose:

• Integrate information gathered throughout the workshop in a discussion on the properties and characteristics of an ideal in-home disposal system, factors impacting implementation, and regulatory considerations for household opioid disposal.

11:15-12:15 Moderated Panel Discussion

ALASTAIR WOOD, Workshop Co-chair, Moderator

Panelists Pharmaceutical Sciences Perspective ANDREW COOP Professor, Pharmaceutical Sciences Associate Dean for Academic Affairs University of Maryland School of Pharmacy

Implementation Perspective MARK BICKET Assistant Professor, Department of Anesthesiology Director, Pain & Opioid Research, Institute for Healthcare Policy and Innovation University of Michigan Medical School

Overdose Prevention Perspective

JEFF HORWITZ Chief Executive Officer SAFE Project

Human-Centered Design Perspective

LAURA BIX Assistant Dean for Teaching, Learning and Academic Analytics Michigan State University College of Agriculture & Natural Resources

Food and Drug Administration Perspective PATRICK RAULERSON Senior Regulatory Counsel Center for Drug Evaluation and Research

U.S. Food and Drug Administration

12:15-12:45 Panel Discussion with Audience Engagement

12:45 pm CLOSING REMARKS

BETH MCGINTY, Workshop Co-chair

MEETING ADJOURNS