# MEETING OF THE ADVISORY COMMITTEE ON THE MEDICAL USES OF ISOTOPES

September 21-22, 2020

#### **MEETING SUMMARY**

#### **PURPOSE**

To discuss issues related to the implementation of the medical regulations in Title 10 of the *Code of Federal Regulations* (10 CFR) Part 35, "Medical Use of Byproduct Material."

# OUTCOME

The Advisory Committee on the Medical Uses of Isotopes (ACMUI) made recommendations, and the U.S. Nuclear Regulatory Commission (NRC) staff gained a better understanding of the views and opinions of the ACMUI, as well as other stakeholders' views and opinions. The NRC staff will consider these views in its continuing effort to make 10 CFR Part 35 more useful, practical, and not overly burdensome on licensees, while maintaining public health and safety.

Full transcripts and handouts from the ACMUI meeting can be found on the NRC's ACMUI Meetings webpage, located at: https://www.nrc.gov/reading-rm/doc-collections/acmui/meetings/.

# **RECOMMENDATIONS AND ACTIONS**

The ACMUI endorsed the following subcommittee reports. The reports and their recommendations can be viewed, in their entirety, on the NRC's ACMUI Subcommittee Reports webpage, located at: https://www.nrc.gov/reading-rm/doc-collections/acmui/reports/.

 The ACMUI endorsed the Medical Events Subcommittee report and its recommendations, as presented.

The recommendation passed unanimously with thirteen favorable votes.

Other topics discussed and/or presented during the meeting include:

- Dr. David Hamby, Renaissance Code Development, LLC, provided a presentation on the dosimetry methodology update for the Phase 2 revision of Regulatory Guide 8.39, "Release of Patients Administered Radioactive Material." The ACMUI Regulatory Guide 8.39 Subcommittee will have the opportunity to review the preliminary draft Phase 2 update when it becomes available. This presentation was informational and requires no action of the ACMUI.
- Mr. Frank Lutterodt, U.S. Food & Drug Administration (FDA), provided a presentation on the FDA's process for new drug development and labeling. This presentation was informational and requires no action from the ACMUI.

The following actions resulted from discussions that took place during the meeting:

 At the conclusion of the report of Non-Medical Events, the ACMUI recommended that the National Materials Program evaluate the issue of detection of short-lived medical isotopes in municipal waste (waste from nuclear medicine patients that could possibly be triggering the landfill alarms) and provide some level of guidance, best practices, or additional instructions.

The recommendation passed unanimously with thirteen favorable votes.

• The ACMUI tentatively scheduled its spring 2021 meeting for March 15-16, 2021. The alternate meeting date is March 22-23, 2021. A virtual or in-person meeting for spring 2021 is to be determined.

## Enclosures:

- 1. Meeting Attendees
- 2. Meeting Agenda

#### **MEETING ATTENDEES**

# ADVISORY COMMITTEE ON THE MEDICAL USES OF ISOTOPES

Darlene F. Metter, M.D. Chairman
A. Robert Schleipman, Ph.D. Vice Chairman

Gary Bloom Member Vasken Dilsizian, M.D. Member Ronald D. Ennis, M.D. Member Richard Green Member Hossein Jadvar. M.D. Member Melissa Martin Member Michael D. O'Hara, Ph.D. Member Zoubir Ouhib Member Michael A. Sheetz Member Megan Shober Member Harvey B. Wolkov, M.D. Member

### **NRC STAFF**

Kevin Williams Director, Division of Materials Safety, Security, State, and

Tribal Programs (MSST)

Jacob Zimmerman Acting Deputy Director, MSST

Chris Einberg Chief, Medical Safety and Events Assessment Branch (MSEB)

and Designated Federal Officer

Kellee Jamerson Designated Federal Officer and ACMUI Coordinator, MSEB

Maryann Ayoade NMSS/MSST/MSEB

Stephanie Bush-Goddard RES/DSA Theresa Clark NMSS/REFS

Said Daibes, Ph.D. NMSS/MSST/MSEB Daniel Dimarco NMSS/MSST/MSEB

Lisa Dimmick Medical Radiation Safety Team Leader, MSS/MSST/MSEB

Jason Draper R-III/DNMS/MIB Robin Elliott R-I/DNMS/MLAB Sarah Forster R-III/DNMS/MLB Robert Gallaghar R-I/DNMS/MLAB Anita Gray, Ph.D. NMSS/MSST/SMPB Valerie Gray NMSS/MSST/MSEB Michelle Hammond R-IV/DNMS/MLDB NMSS/MSST Vincent Holahan, Ph.D. Esther Houseman OGC/GCLR/RMR Donna-Beth Howe, Ph.D. NMSS/MSST/MSEB

Ian Irvin OGC/GCLR/RMR Penny Lanzisera R-I/DNMS/MLAB Sarah Lopas NMSS/MSST/MSEB Kathy Modes NMSS/MSST/SLPB Jan Nauven R-I/DNMS/MLAB Robert Orlikowski R-III/DNMS/MLB Vered Shaffer RES/DSA/RPB Zahid Sulaiman R-III/DNMS/MIB Robert Sun NMSS/MSST/MSEB Katherine Tapp, Ph.D.

Elizabeth Tindle-Engelman

John Tomon

NMSS/MSST/MSEB

R-I/DNMS/MLAB

RES/DSA/RPB

Duncan White NMSS/MSST/SLPB

# **PUBLIC PARTICIPANTS**

Alex Bakken Niowave, Inc.

Jaime Barnes Cook Children's Medical Center

Rebecca Branum CRD Associates
Haley Brown Emory University

Keith Brown University of Pennsylvania

Janet Bukovcan Boston Scientific

Mary Burkhart Illinois Emergency Management Agency

Paul Burns Mount Sinai

Ashley Cockerham Mercurie Consulting

Thomas Conley University of Kansas Health System
Whitney Cox Illinois Emergency Management Agency

Elaine Crescenzi Pennsylvania Department of Environmental Protection

Corey Creveling State of Nevada, Radiation Control Program

David Crowley North Carolina Department of Health and Human Services,

**Radiation Protection Section** 

Bruce Curran VCU Health System
Matt Dennis CRD Associates, LLC
Newbegin Devaraj National Institutes of Health

Nick Dorrell University of Virginia

Ariel Doucet Virtua Health

Dawn Edgerton American Society of Nuclear Cardiology

Brian Erasmus Boston Scientific

Teresa Fisher National Institutes of Health

John Follette State of Nevada, Radiation Control Program

Lisa Forney Pennsylvania Department of Environmental Protection

Sandy Gabriel Unaffiliated

Debbie Gilley International Atomic Energy Agency

Richard Granberg NorthStar

Carl Granlund Johns Hopkins University

Johnny Graves Tennessee Department of Environment and Conservation,

Division of Radiological Health

Miguel de la Guardia Cook Children's Medical Center

Michael Guastella CORAR

Michael Hall Emory University

David Hamby, PhD. RCD Radiation Protection Association

Stanley Hampton Eli Lilly

Kathleen Hintenlang American College of Radiology Rachel Houseman SHINE Medical Technologies

Josh Knowland Lucerno Dynamics

Joseph Koshy Pennsylvania Department of Environmental Protection
Sasikala Krishnasarma Tennessee Department of Environment and Conservation,

Division of Radiological Health

Kevin Kunder Florida Department of Health, Bureau of Radiation Control

Ronald Lattanze Lucerno Dynamics

St. Joseph Mercy Health System Ralph Lieto U.S. Food and Drug Administration Frank Lutterodt University of California at Los Angeles Carol Marcus, MD, PhD.

American Association of Physicists in Medicine Richard Martin

University of Pennsylvania Candi McDowell

Massachusetts General Hospital Tara Medich

Christopher Mitchell Kettering Health Network

NorthStar Medical Radioisotopes Thomas Mohaupt

Vanessa Mongeon **Boston Scientific** 

Jennifer Noll Pennsylvania Department of Environmental Protection Ron Parsons Tennessee Department of Environment and Conservation,

Division of Radiological Health

Michael Peters American College of Radiology Radiation Protection & Training Andrea Ravard

Erin Reynolds Pennsylvania Department of Environmental Protection Tracy Scherer Pennsylvania Department of Environmental Protection Pennsylvania Department of Environmental Protection Grace Schoeniger Pennsylvania Department of Environmental Protection Katie Scott

Monongahela Valley Hospital Michael Semon Meredith Semon-Pomposelli Monongahela Valley Hospital

Michael Stabin NV5

Carol Wen Christiana Care

Neil Whiteside Yale New Haven Hospital

Colin Whitney **ASTRO** 

Melonie Wissing Department of Veterans Affairs

John Witkowski **UPPI** 

# MEETING AGENDA ADVISORY COMMITTEE ON THE MEDICAL USES OF ISOTOPES September 21-22, 2020 WEBEX

NOTE: Sessions of the meeting may be closed pursuant to 5 U.S.C. 552(b) to discuss organizational and personnel matters that relate solely to internal personnel rules and practices of the ACMUI; information the release of which would constitute a clearly unwarranted invasion of personal privacy; information the premature disclosure of which would be likely to significantly frustrate implementation of a proposed agency action; and disclosure of information which would risk circumvention of an agency regulation or statute.

Monday, September 21, 2020

	Monday, September 21, 2020 OPEN SESSION	
	<ol> <li>Opening Remarks         Mr. Einberg will formally open the meeting and provide opening remarks.     </li> </ol>	C. Einberg, NRC
10:00 - 11:30	<ol> <li>Old Business         Ms. Jamerson will review past ACMUI actions and recommendations and provide NRC responses.     </li> </ol>	K. Jamerson, NRC
	<ol> <li>Open Forum         The ACMUI will identify medical topics of interest for further discussion.     </li> </ol>	ACMUI
	4. Medical Events Subcommittee Report Dr. Ennis will provide an analysis of FY19 medical events.	R. Ennis, ACMUI
11:30 – 12:15	BREAK/LUNCH	
	5. Non-Medical Events Mr. Sheetz will provide an analysis of FY19 non-medical events reported by medical use facilities and commercial pharmacies.	M. Sheetz, ACMUI
12:15 – 2:00	6. New Drug Development and Labeling Mr. Lutterodt will discuss the U.S. Food and Drug Administration's regulatory process for new drug development and labeling.	F. Lutterodt, FDA
	7. Dosimetry Methodology Update for Regulatory Guide 8.39, Phase 2 Revision Dr. Hamby will discuss the dosimetry methodology update for the Regulatory Guide 8.39, Phase 2 revision.	D. Hamby, RCD Radiation Protection Assoc.
2:00	ADJOURN FOR THE DAY	
	Tuesday, September 22, 2020 CLOSED SESSION	
10:00 – 12:00	8. INFOSEC Training 9. Ethics Training 10. Allegations Training	R. Norman, NRC C. Safford, NRC S. Hawkins, NRC
12:00 - 12:15	BREAK	

	Tuesday, September 22, 2020 OPEN SESSION	
	11. Medical Team Updates Ms. Dimmick will provide an update on Medical Radiation Safety Team activities.	L. Dimmick, NRC
12:15 – 1:45	<b>12. Open Forum</b> The ACMUI will discuss medical topics of interest previously identified.	ACMUI
	<b>13. Administrative Closing</b> Ms. Jamerson will provide a meeting summary and propose dates for the spring 2021 meeting.	K. Jamerson, NRC
1:45	ADJOURN	