

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

October 28, 2015

**MEETING SUMMARY**

**PURPOSE**

To discuss the Advisory Committee on the Medical Uses of Isotopes (ACMUI) subcommittee report on the ACMUI review of and comments on Petitions for Rulemaking (PRM)-20-28, 20-29, 20-30, "Linear No-Threshold Model and Standards for Protection Against Radiation."

**OUTCOME**

The subcommittee provided a draft report for discussion with the full Committee. Subcommittee members included: Dr. Philip Alderson (Chair), Dr. Susan Langhorst, Dr. Christopher Palestro, Dr. John Suh, Ms. Laura Weil and Dr. Pat Zanzonico. During the meeting, the Committee unanimously approved the draft report. The U.S. Nuclear Regulatory Commission (NRC) staff gained a better understanding of the views and opinions of the ACMUI. The final report will be submitted to the NRC staff, and the staff will consider the ACMUI's comments in its continuing effort to make Title 10 Code of Federal Regulations (CFR) Part 20, "Standards for Protection Against Radiation" more useful, practical, and not overly burdensome on licensees, while maintaining public health and safety.

A full transcript and handout for the ACMUI teleconference meeting can be found on NRC's public website at <http://www.nrc.gov/reading-rm/doc-collections/acmui/meetings/>

The draft and final ACMUI Subcommittee report on the Hormesis/Linear No-Threshold Petitions is available on NRC's public website under "ACMUI Subcommittee Reports":  
<http://www.nrc.gov/reading-rm/doc-collections/acmui/reports/>

**AGENDA TOPIC**

Discuss the ACMUI Subcommittee Report on the Review and Comments of Petitions for Rulemaking (PRM)-20-28, 20-29, and 20-30, "Linear No-Threshold Model and Standards for Protection Against Radiation."

**SUMMARY**

The ACMUI Subcommittee evaluated the three PRMs related to radiation Hormesis and the Linear No-Threshold (LNT) dose-response model of radiation carcinogenesis in order to suggest recommendations that the ACMUI should make to the Commission. The subcommittee provided a draft report for the Committee's consideration.

**RECOMMENDATIONS AND ACTIONS**

The subcommittee discussed the following recommendation in the draft subcommittee report:

The NRC should continue to base the formulation of radiation protection standards in 10 CFR Part 20 on the LNT model until additional scientific evidence becomes available.

The Draft Hormesis/Linear No-Threshold Petitions Subcommittee Report (ML15287A494) was unanimously approved by the full ACMUI. The Final Hormesis/Linear No-Threshold Petitions Report (ML15310A418) is posted on the ACMUI Subcommittee Report Webpage.

Attachments:

List of Attendees

## MEETING ATTENDEES

### ACMUI

Philip O. Alderson, M.D.	Chairman
Pat B. Zanzonico, Ph.D.	Vice Chairman
Francis M. Costello	Member
Vasken Dilsizian, M.D.	Member
Ronald D. Ennis, M.D.	Member
Steven R. Mattmuller	Member
Michael D. O'Hara, Ph.D.	Member
Christopher J. Palestro, M.D.	Member
John H. Suh, M.D.	Member
Laura M. Weil	Member
Darlene F. Metter, M.D.	Non-Voting Member
Zoubir Ouhib	Non-Voting Member

### NRC

Josie Piccone, Ph.D.	Director, Division of Material Safety, State, Tribal and Rulemaking Programs (MSTR)
Douglas Bollock	Branch Chief, Medical Safety and Events Assessment Branch (MSEB) and Designated Federal Officer
Sophie Holiday	Alternate Designated Federal Officer/ACMUI Coordinator
Michael Fuller	Medical Radiation Safety Team Leader
Maryann Abogunde	NMSS
Ashley Cockerham	NMSS
Said Daibes, Ph.D.	NMSS
Anthony Delamotte	NMSS
Sara Forster	RIII
Jeff Griffis	OCHCO
Latischa Hanson	RIV
Vincent Holahan, Ph.D.	NMSS
Esther Houseman	OGC
Donna-Beth Howe, Ph.D.	NMSS
Erin Kennedy	RIII
Penny Lanzisera	RI
Dennis O'Dowd	RIII
Gretchen Rivera-Capella	NMSS

### MEMBERS OF THE PUBLIC

Rich Beauman	Oregon Health Authority
Mike Blake	American Nuclear Society
Isabelle Busenitz	Kansas Department of Health and Environment
Jeff Colvin	American Association of Physicists in Medicine (AAPM)
Peter Crane	<i>unaffiliated</i>
Jerry Cuttler	<i>unaffiliated</i>
Victor Diaz	New Mexico Environment Department Radiation Control

Stephen Dragotakes  
William Duncan  
Chuck Flynn  
Sandra Gabriel  
Wendy Galbraith  
Hilary Haskins  
Scott Knishka

Richard Lamboi  
Daryl Leon  
Sam Leveritt  
Marvin Lewis  
Richard Martin  
Joseph Noble  
Judith Schuerman  
Michael Sheetz  
Jeffrey Siegel  
Michael Stabin  
David Stephens  
Mike Stephens  
David Stradinger  
Bruce Thomadsen  
Cindy Tomlinson  
Nicole Traphan  
Ed Truskowski

Beth Israel Deaconess Medical Center  
Texas Department of State Health Services  
Texas Department of State Health Services  
International Atomic Energy Agency (IAEA)  
University of Oklahoma Health Sciences Center  
Oregon Health Authority  
University of Wisconsin School of Medicine and Public  
Health Radiopharmaceutical Production Facility  
Texas Department of State Health Services  
Oregon Health Authority  
Cardinal Health  
*unaffiliated*  
American Association of Physicists in Medicine (AAPM)  
Louisiana Department of Environmental Quality  
Louisiana Department of Environmental Quality  
University of Pittsburgh  
Nuclear Physics Enterprises  
Vanderbilt University  
Arkansas Department of Health  
Florida Bureau of Radiation Control  
North Dakota Department of Health, Radiation Control  
University of Wisconsin  
American Society of Radiation Oncology (ASTRO)  
Texas Department of State Health Services  
New Jersey Department of Environmental Protection