

SNMMI NEWSLINE

- 7N** 2018 SNMMI Highlights Lecture: General Nuclear Medicine
Heather A. Jacene
- 13N** Newsbriefs
- 14N** SNMMI Recognizes Outstanding Contributions at 2018 Annual Meeting
- 17N** FDA Approves AZEDRA Specified Use in Pheochromocytomas/Paragangliomas
- 18N** SNMMI Leadership Update: SNMMI Mid-Winter Meeting in Palm Springs: Focus on Cardiovascular Imaging
Virginia Pappas

ISSUES AND CONTROVERSIES

- 1489** Nuclear Medicine Procedures Do Not Pose Cancer Risks in Women—Unappreciated or Otherwise
Jeffrey A. Siegel, Bennett Greenspan, Edward B. Silberstein, Bill Sacks, Carol S. Marcus, and Michael G. Stabin
- 1491** ■ **REPLY.** Nuclear Medicine Procedures Do Not Pose Cancer Risks in Women—Unappreciated or Otherwise
Anat Biegon, Dinko Franceschi, and Mark Schweitzer

HOT TOPICS

- 1492** Assessment of the Right-to-Try Law: The Pros and the Cons
Brandon Brown, Camerin Ortiz, and Karine Dubé

THE STATE OF THE ART

- 1494** The Relevance of Dosimetry in Precision Medicine
Michael Lassmann and Uta Eberlein

CONTINUING EDUCATION

- 1500** An Overview of PET Radiochemistry, Part 2: Radiometals
Marie Brandt, Jens Cardinale, Margaret L. Aulsebrook, Gilles Gasser, and Thomas L. Mindt

EDITORIAL

- 1507** Modern Radiopharmaceutical Dosimetry Should Include Robust Biodistribution Reporting
Adam L. Kesner and Lisa Bodei

ONCOLOGY

Clinical

- 1510** Role of Diagnostic ¹³¹I SPECT/CT in Long-Term Follow-up of Patients with Papillary Thyroid Microcarcinoma
Angela Spanu, Susanna Nuvoli, Ilaria Gelo, Luciana Mele, Bastiana Piras, and Giuseppe Madeddu

- 1516** Reproducibility and Repeatability of Semiquantitative ¹⁸F-Fluorodihydrotestosterone Uptake Metrics in Castration-Resistant Prostate Cancer Metastases: A Prospective Multicenter Study

Hebert Alberto Vargas, Gem M. Kramer, Andrew M. Scott, Andrew Weickhardt, Andreas A. Meier, Nicole Parada, Bradley J. Beattie, John L. Humm, Kevin D. Staton, Pat B. Zanzonico, et al.

- 1524** ¹⁸F-FDG PET Response of Skeletal (Bone Marrow and Bone) Involvement After Induction Chemotherapy in Pediatric Hodgkin Lymphoma: Are Specific Response Criteria Required?

Thomas W. Georgi, Regine Kluge, Lars Kurch, Lidia Chavdarova, Dirk Hasenclever, Dietrich Stoevesandt, Tanja Pelz, Judith Landman-Parker, W. Hamish Wallace, Jonas Karlen, et al.

Basic

- 1531** PET of Adoptively Transferred Chimeric Antigen Receptor T Cells with ⁸⁹Zr-Oxine

Michael R. Weist, Renate Starr, Brenda Aguilar, Junie Chea, Joshua K. Miles, Erasmus Poku, Ethan Gerdts, Xin Yang, Saul J. Priceman, Stephen J. Forman, et al.

- 1538** Specific ¹⁸F-FDHT Accumulation in Human Prostate Cancer Xenograft Murine Models Is Facilitated by Prebinding to Sex Hormone-Binding Globulin

Benjamin M. Larimer, Frank Dubois, Emily Bloch, Sarah Nesti, Michael Placzek, Giorgia Zadra, Jacob M. Hooker, Massimo Loda, and Umar Mahmood

- 1544** Using Radiolabeled 3'-Deoxy-3'-¹⁸F-Fluorothymidine with PET to Monitor the Effect of Dexamethasone on Non-Small Cell Lung Cancer

Christopher I. McHugh, Monica R. Thipparthi, Jawana M. Lawhorn-Crews, Lisa Polin, Shirish Gadgeel, Janice Akoury, Thomas J. Mangner, Kirk A. Douglas, Jing Li, Manohar Ratnam, et al.

- 1551** Imaging Melphalan Therapy Response in Preclinical Extramedullary Multiple Myeloma with ¹⁸F-FDOPA and ¹⁸F-FDG PET

Deep K. Hathi, Elizabeth N. DeLassus, Samuel Achilefu, Jonathan McConathy, and Monica Shokeen

- 1558** Depicting Changes in Tumor Biology in Response to Cetuximab Monotherapy or Combination Therapy by Apoptosis and Proliferation Imaging Using ¹⁸F-ICMT-11 and ¹⁸F-FLT PET

Kathrin Heinzmann, Quang-Dé Nguyen, Davina Honess, Donna-Michelle Smith, Stephen Stribbling, Diana Brickute, Chris Barnes, John Griffiths, and Eric Aboagye

THERANOSTICS

Clinical

- 1566** ■ **FEATURED CLINICAL INVESTIGATION ARTICLE.** Quality of Life in Patients with Metastatic Gastroenteropancreatic Neuroendocrine Tumors Receiving Peptide Receptor Radionuclide Therapy: Information from a Monitoring Program in Clinical Routine

Caroline Martini, Sabine Buxbaum, Margarida Rodrigues, Bernhard Nilica, Lorenza Scarpa, Bernhard Holzner, Irene Virgolini, and Eva-Maria Gamper

CARDIOLOGY

Clinical

1574 Simplified Quantification and Acquisition Protocol for ^{123}I -MIBG Dynamic SPECT

Jing Wu, Jean-Dominique Gallezot, Yihuan Lu, Qing Ye, Hui Liu, Denise A. Esserman, Tassos C. Kyriakides, Stephanie L. Thorn, Taraneh Hashemi Zonouz, Yi-Hwa Liu, et al.

NEUROLOGY

Clinical

1581 ■ INVITED PERSPECTIVE. Optimizing Longitudinal Amyloid- β PET Measurement: The Challenges of Intensity Normalization

Susan M. Landau

1583 White Matter Reference Region in PET Studies of ^{11}C -Pittsburgh Compound B Uptake: Effects of Age and Amyloid- β Deposition

Val J. Lowe, Emily S. Lundt, Matthew L. Senjem, Christopher G. Schwarz, Hoon-Ki Min, Scott A. Przybelski, Kejal Kantarci, David Knopman, Ronald C. Petersen, and Clifford R. Jack Jr.

1590 Age-Specific ^{18}F -FDG Image Processing Pipelines and Analysis Are Essential for Individual Mapping of Seizure Foci in Pediatric Patients with Intractable Epilepsy

Bianca De Blasi, Anna Barnes, Ilaria Boscolo Galazzo, Chia-ho Hua, Barry Shulkin, Matthias Koeppe, and Martin Tisdall

1597 Evaluation of ^{11}C -BU99008, a PET Ligand for the Imidazoline₂ Binding Site in Human Brain

Robin J. Tyacke, Jim F.M. Myers, Ashwin Venkataraman, Inge Mick, Samuel Turton, Jan Passchier, Stephen M. Husbands, Eugenii A. Rabiner, Roger N. Gunn, Philip S. Murphy, et al.

Translational

1603 ■ FEATURED ARTICLE OF THE MONTH. ^{18}F -XTRA PET for Enhanced Imaging of the Extrathalamic $\alpha 4\beta 2$ Nicotinic Acetylcholine Receptor

Jennifer M. Coughlin, Stephanie Slania, Yong Du, Hailey B. Rosenthal, Wojciech G. Lesniak, Il Minn, Gwenn S. Smith, Robert F. Dannals, Hiroto Kuwabara, Dean F. Wong, et al.

Basic

1609 P-Glycoprotein (ABCB1) Inhibits the Influx and Increases the Efflux of ^{11}C -Metoclopramide Across the Blood-Brain Barrier: A PET Study on Nonhuman Primates

Sylvain Auvity, Fabien Caillé, Solène Marie, Catriona Wimberley, Martin Bauer, Oliver Langer, Irène Buvat, Sébastien Goutal, and Nicolas Tournier

INFECTION/INFLAMMATION

Basic

1616 ■ FEATURED BASIC SCIENCE ARTICLE. ^{18}F -FAC PET Selectively Images Liver-Infiltrating CD4 and CD8 T Cells in a Mouse Model of Autoimmune Hepatitis

Jessica R. Salas, Bao Ying Chen, Alicia Wong, Donghui Cheng, John S. Van Arnam, Owen N. Witte, and Peter M. Clark

PHYSICS AND INSTRUMENTATION

1624 Improving the Accuracy of Simultaneously Reconstructed Activity and Attenuation Maps Using Deep Learning

Donghui Hwang, Kyeong Yun Kim, Seung Kwan Kang, Seongho Seo, Jin Chul Paeng, Dong Soo Lee, and Jae Sung Lee

1630 Joint Reconstruction of Activity and Attenuation in Time-of-Flight PET: A Quantitative Analysis

Ahmadreza Rezaei, Christophe M. Deroose, Thomas Vahle, Fernando Boada, and Johan Nuyts

SPECIAL CONTRIBUTION

1636 The SNMMI and EANM Procedural Guidelines for Diuresis Renography in Infants and Children

Massoud Majd, Zvi Bar-Sever, Ana Isabel Santos, and Diego De Palma

DEPARTMENTS

6A This Month in JNM

1641 Book Reviews

1642 Letters to the Editor