

# JNM



Official Publication of  
The Society of Nuclear Medicine

## SNM NEWSLINE

- 19N Threatened Reactor Worker Strike Startles Nuclear Medicine Profession**  
*J. Rojas-Burke*
- 20N GAO Probe Details US Isotope Troubles**  
*J. Rojas-Burke*
- 24N Industry Split Over Best Path for Approval of PET Tracers**  
*J. Rojas-Burke*
- 30N Government Relations Update**
- 34N OMB Rejects Quality Management Rule**
- 38N Lines From the President**  
*Paul H. Murphy, PhD*
- 39N News Briefs: SNM, Tech Section Election Results; AMA Questions NRC Radiation Protection Rules; Totalman Award Winner; First Pediatric Nuclear Medicine Symposium**

## HUMAN STUDIES

- 1589 Bone Scintigraphy Following Intravenous Pamidronate for Paget's Disease of Bone**  
*Paul J. Ryan, Terence Gibson, and Ignac Fogelman*
- 1594 Gallium Imaging in Metastatic and Recurrent Soft-Tissue Sarcoma**  
*Andrew E. Southee, William D. Kaplan, Maxine S. Jochelson, René Gonin, Jo-Anne P. Dwyer, Karen H. Antman, and Anthony D. Elias*
- 1600 Significance of Increased Lung Thallium Uptake During Adenosine Thallium-201 Scintigraphy**  
*Shigeyuki Nishimura, John J. Mahmarian, and Mario S. Verani*
- 1608 Bone Mineral Density of the Axial Skeleton in Acromegaly**  
*P. Jean Ho, Lorraine M. Fig, M.P.H., Ariel L. Barkan, and Brahm Shapiro*

- 1613 Dosimetry and Biodistribution of an Iodine-123-Labeled Somatostatin Analog in Patients with Neuroendocrine Tumors**

*M.K. O'Connor, L.J. Kvols, M.L. Brown, J.C. Hung, R.J. Hayostek, D.S. Cho, and R.J. Vetter*

- 1620 Prospective Validation of a Single Sample Technique to Determine Technetium-99m-MAG3 Clearance**

*Andrew Taylor, Jr., Patti Corrigan, Dennis Eshima, and Russell Folks*

- 1623 Unilateral Voluntary Hand Movement and Regional Cerebral Uptake of Technetium-99m-Exametazime in Human Control Subjects**

*Klaus P. Ebmeier, Catherine L. Murray, Nadine J. Dougall, Ronan E. O'Carroll, and Guy M. Goodwin*

- 1628 Semiquantitative Assessment of Myocardial Blood Flow and Viability Using Polar Map Displays of Cardiac PET Images**

*Gerold Porenta, William Kuhle, Johannes Czernin, Osman Ratib, Richard C. Brunken, Michael E. Phelps, and Heinrich R. Schelbert*

- 1637 Crossed Cerebellar Hypoperfusion in Unilateral Major Cerebral Artery Occlusive Disorders**

*Hiroshi Yamauchi, Hidenao Fukuyama, Shinya Yamaguchi, Toshiki Doi, Masafumi Ogawa, Yasuomi Ouchi, Jun Kimura, Norihiro Sadato, Yoshiharu Yonekura, Nagara Tamaki, and Junji Konishi*

- 1642 Radionuclide Cardiac Volumes: Effects of Region of Interest Selection and Correction for Compton Scatter Using a Buildup Factor**

*Wayne C. Levy, Arnold F. Jacobson, Manuel D. Cerqueira, Dale T. Matsouka, Florence H. Sheehan, and John R. Stratton*

- 1648 Dose Fractionation of Radiolabeled Antibodies in Patients with Metastatic Colon Cancer**

*Ruby F. Meredith, M.B. Khazaali, Tiepu Liu, Gene Plott, Richard H. Wheeler, Charles Russell, David Colcher, Jeffrey Schlom, Dan Shochat, and Albert F. LoBuglio*

## LABORATORY STUDIES

- 1654 Radiation Dosimetry for Indium-111-Labeled Anti-CEA-F(ab')<sub>2</sub> Fragments Evaluated from Tissue Distribution in Rats**

*Bo-Anders Jönsson, Sven-Erik Strand, and Lena Andersson*

- 1661 The Effects of Regional Pulmonary Blood Flow on Protein Flux Measurements with PET**

*Aaron Hamvas, James D. Kaplan, Joanne Markham, and Daniel P. Schuster*

- 1669 Use of Left Ventricular Time-Activity Curve as a Noninvasive Input Function in Dynamic Oxygen-15-Water Positron Emission Tomography**

*Hidehiro Iida, Christopher G. Rhodes, Ranil de Silva, Luis I. Araujo, Peter M. Bloomfield, Adriaan A. Lammertsma, and Terry Jones*

- 1678 Clinically Important Characteristics of Maximum-Likelihood Reconstruction**

*Tom R. Miller and Jerold W. Wallis*

- 1685 Copper-64-Labeled Antibodies for PET Imaging**  
*Carolyn J. Anderson, Judith M. Connert, Sally W. Schwarz, Pamela A. Rocque, Li Wu Guo, Gordon W. Philpott, Kurt R. Zinn, Claude F. Meares, and Michael J. Welch*

### CASE REPORTS

- 1692 SPECT, Magnetic Resonance and Angiographic Features in a Moyamoya Patient Before and After External-to-Internal Carotid Artery Bypass**  
*Kenjiro Ohashi, Mariano Fernandez-Ulloa, and Larry C. Hall*
- 1696 Cerebral Blood Flow and Glucose Metabolism Measurements in a Patient Surviving One Year After Carbon Monoxide Intoxication**  
*Ekū Shimosegawa, Jun Hatazawa, Ken Nagata, Toshio Okudera, Atsushi Inugami, Toshihide Ogawa, Hideaki Fujita, Hiroshi Itoh, Iwao Kanno, and Kazuo Uemura*
- 1699 Stress Fractures Associated with Osteosarcoma of the Lower Limb**  
*Miguel Gorenberg, David Groshar, Ora Israel, Miriam Ben-Harush, Gerald M. Kolodny, and Dov Front*
- 1701 Gallium-67 Distribution in a Man with a Decrease in Both Transferrin and Hepatic Gallium-67 Concentration**  
*Ronald E. Weiner, Richard P. Spencer, Timothy J. Dambro, and Barbara E. Klein*
- 1704 Necrotizing Tracheobronchitis Identified on an Indium-111-White Blood Cell Scan**  
*Shobha P. Desai and David L. Yuille*

### CLINICOPATHOLOGIC CONFERENCES

- 1707 The Evaluation of the Patient with Gastroparesis Secondary to Insulin-Dependent Diabetes Mellitus**  
*Robin D. Rothstein*

### METHODOLOGY

- 1710 Fast Maximum-Likelihood Reconstruction**  
*Tom R. Miller and Jerold W. Wallis*
- 1712 The Technetium-99m-DTPA Renal Uptake-Plasma Volume Product: A Quantitative Estimation of Glomerular Filtration Rate**  
*I. George Zubal and Vicente J. Caride*

### MIRD REPORTS

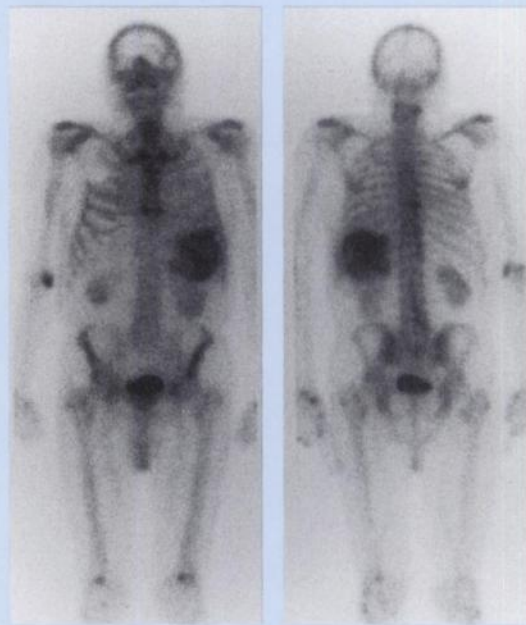
- 1717 MIRD Dose Estimate Report No. 16: Radiation Absorbed Dose from Technetium-99m-Diethylenetriaminepentaacetic Acid Aerosol**  
*Harold L. Atkins, David A. Weber, Herbert Susskind, and Stephen R. Thomas*

### COMMENTARY

- 1720 The Value of "The Putrescine Experience"**  
*Joanna S. Fowler, Jonathan D. Brodie, Emile Hiesiger, Alfred P. Wolf, and Nora D. Volkow*

## FIRST IMPRESSIONS

Abnormal accumulation of  $^{99m}\text{Tc}$ -MDP in the spleen.  
For acquisition information, turn to page 1593.



Ant

Post

### DEPARTMENTS

- 1559 Self-Study Test**
- 1722 Letters to the Editor**
- Book Reviews**
- 1724 Biochemistry of Ionizing Radiation**  
*Reviewed by Kurt I. Altman*
- 1726 In Memoriam**
- 43A Calendar**
- 47A Classified Advertising**
- 50A Index to Advertisers**