

JNM



Official Publication of
The Society of Nuclear Medicine

SNM NEWSLINE

- 17N Commentary: Highlights of the SNM Annual Meeting**
Henry N. Wagner, Jr., MD
- 30N News Briefs: 'Star Wars' Accelerator Put to Medical Use; Cost of Animal-Remains Disposal Reducible; Curtiss Leaves NRC; Pennsylvania Medical Center Fined; FDA Approves Bone Metastases Therapy; Supercollider Killed in House**

HUMAN STUDIES

- 1223 Prediction of Cerebral Palsy in High-Risk Neonates: A Technetium-99m HMPAO SPECT Study**
R. Denays, T. Van Pachterbeke, V. Toppet, M. Tondeur, M. Spehl, A. Piepsz, P. Noel, D. Haumont and H. R. Ham
- 1228 Scintigraphy Versus pH Probe for Quantification of Pediatric Gastroesophageal Reflux: A Study Using Concurrent Multiplexed Data and Acid Feedings**
Susan R. Orenstein, Herbert A. Klein and Marc S. Rosenthal
- 1235 Assessing Collateral Cerebral Perfusion with Technetium-99m-HMPAO SPECT During Temporary Internal Carotid Artery Occlusion**
Christopher J. Palestro, Chandranath Sen, Michael Muzinic, Menes Afriyie and Stanley J. Goldsmith
- 1239 Brain Blood Flow SPECT in Temporary Balloon Occlusion of Carotid and Intracerebral Arteries**
Dana Mathews, Brandy S. Walker, Phillip D. Purdy, Hunt Batjer, Beth C. Allen, Donald A. Eckard, Michael D. Devous and Frederick J. Bonte
- 1243 Editorial: SPECT HMPAO and Balloon Test Occlusion: Interest in Predicting Tolerance Prior to Permanent Cerebral Artery Occlusion**
Serge Askienazy, Rachida Lebtahi and Jean-Francois Meder
- 1246 Radioimmuno-detection of Hodgkin's Disease and Non-Hodgkin's Lymphomas with Monoclonal Antibody to Eosinophil Peroxidase**
Michael K. Samoszuk, Anne-Line Anderson, Eiman Ramzi, Felix Wang, Philip Braunstein, Jose Lutsky Haresh Majmundar and Lewis M. Slater
- 1254 Biokinetics of Technetium-99m-Tetrofosmin: A Myocardial Perfusion Imaging Agent: Implications for a One-Day Imaging Protocol**
Diwaker Jain, Frans J. Th. Wackers, Jennifer Manntera, Michael McMahon, Albert J. Sinusas and Barry L. Zarat
- 1260 Phase II Scintigraphic Clinical Trial of Malignant Melanoma and Metastases with Iodine-123-N-(2-**

Diethylaminoethyl 4-Iodobenzamide)

J.M. Michelot, M.F.C. Moreau, A.J. Veyre, J.F. Bonafous, F.J. Bacin, J.C. Madelmont, F. Bussiere, P.A. Souteyrand, L.P. Mauclair, F.M. Chossat, J.M. Papon, P.G. Labarre, Ph. Kauffmann and R.J. Plagne

- 1267 Radioimmuno-detection of Medullary Thyroid Cancer Using a Bispecific Anti-CEA/Anti-Indium-DTPA Antibody and an Indium-111-Labeled DTPA Dimer**
Patrick Peltier, Chantal Curtet, Jean-Francois Chatal, Jean-Marc Le Doussal, Georges Daniel, Geneviève Aillet, Anne Gruaz-Guyon, Jacques Barbet and Michel Delaage
- 1274 Iodine-123-IBZM Dopamine D2 Receptor and Technetium-99m-HMPAO Brain Perfusion SPECT in the Evaluation of Patients with and Subjects at Risk for Huntington's Disease**
Masanori Ichise, Hiroshi Toyama, Luis Fornazzari, James R. Ballinger and Joel C. Kirsh

LABORATORY STUDIES

- 1282 Metalodobenzylguanidine: Evaluation of Its Potential as a Tracer for Monitoring Doxorubicin Cardiomyopathy**
Shigetoshi Wakasugi, Alan J. Fischman, John W. Babich, H. Thomas Aretz, Ronald J. Callahan, Motoe Nakaki, Robert Wilkinson and H. William Strauss
- 1287 Myocardial Kinetics of Carbon-11-Meta-Hydroxyephedrine: Retention Mechanisms and Effects of Norepinephrine**
Timothy R. DeGrado, Gary D. Hutchins, Steven A. Toorongian, Donald M. Wieland and Markus Schwaiger
- 1294 Pharmacokinetics of Anti-Carcinoembryonic Antigen Monoclonal Antibody Conjugated to a Bifunctional Transition Metal Carborane Complex (Venus Flytrap Cluster) in Tumor-Bearing Mice**
Barbara G. Beatty, Raymond J. Paxton, M. Frederick Hawthorne, Lawrence E. Williams, Karen J. Rickard-Dickson, Tulan Do, John E. Shively and J. David Beatty
- 1303 Distribution of Deoxyglucose and Technetium-99m-Glucarate in the Acutely Ischemic Myocardium**
Hiroyuki Yaoita, Alan J. Fischman, Robert Wilkinson, Ban An Khaw, Malik Juweid and H. William Strauss
- 1309 Serial Course of Left Ventricular Function, Perfusion and Fatty Acid Uptake in the Cardiomyopathic Hamster**
Kenji Nakai, Marsood Ahmad, Motoe Nakaki, Robert Wilkinson, Ronald J. Callahan, David R. Elmaleh, Alan J. Fischman and H. William Strauss
- 1316 Evaluation of Indium-111-Polyclonal Immunoglobulin G to Quantitate Atherosclerosis in Watanabe Heritable Hyperlipidemic Rabbits with Scintigraphy: Effect of Age and Treatment with Antioxidants or Ethinylestradiol**
Pierre N. M. Demacker, Tom P. J. Dormans, Emile B. Koenders and Frans H. M. Corstens
- 1321 Editorial: Atherosclerosis Imaging: Pathophysiological Assessment for a New Era**
Jeffrey S. Borer

CASE REPORT

- 1326** **Thallium-201 Scintigraphy for Assessment of a Gallium-67-Avid Mediastinal Mass Following Therapy for Hodgkin's Disease**

Evan W. Harris, Joel I. Rakow, Michael Weiner and Harry Agress

- 1330** **Editorial: Benign Mediastinal and Parahilar Uptake of Gallium-67 in Treated Lymphoma: Do We Have all the Answers?**

Ora Israel and Dov Front

METHODOLOGY

- 1333** **Modeling Approach to Eliminate the Need to Separate Arterial Plasma in Oxygen-15-Oxygen Inhalation Positron Emission Tomography**

Hidehiro Iida, Terry Jones and Shuichi Miura

- 1341** **Detection of Patient Motion During Tomographic Myocardial Perfusion Imaging**

Jeffrey A. Cooper, Paul H. Neumann and Brian K. McCandless

- 1349** **Detection and Correction of Patient Motion in Dynamic and Static Myocardial SPECT Using a Multi-Detector Camera**

Guido Germano, Terrance Chua, Paul B. Kavanagh, Hosen Kiat and Daniel S. Berman

- 1355** **Editorial: Effects of Motion on Cardiac SPECT Imaging**

J. Anthony Parker

- 1361** **High-Speed Automated Discrete Blood Sampling for Positron Emission Tomography**

Michael M. Graham and Barbara L. Lewellen

- 1367** **Absorbed Dose Calculations in Haversian Canals for Several Beta-Emitting Radionuclides**

Gamal Akabani

- 1367** **A Rotating PET Scanner Using BGO Block Detectors: Design, Performance and Applications**

David W. Townsend, Martin Wensveen, Larry G. Byars, Antoine Geissbuhler, Henri J. Tochon-Danguy, Anne Christin, Michel Defrise, Dale L. Bailey, Sylke Groontoonk, Alfred Donath and Ronald Nutt

CLINICOPATHOLOGIC CONFERENCES

- 1377** **Methotrexate-Induced Neurotoxicity: Appearance on Indium-111-White Blood Cells, Gallium-67-Citrate and Thallium-201-Chloride Scintigraphy**

Einat Even-Sapir, David C. Barnes, Grant Llewellyn and G. Ross Langley

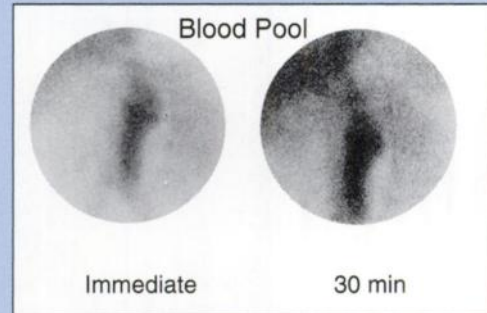
MIRD REPORT

- 1382** **MIRD Dose Estimate Report No. 17: Radiation Absorbed Dose Estimates from Inhaled Krypton-81m Gas in Lung Imaging**

Harold L. Atkins, James S. Robertson and Gamal Akabani

FIRST IMPRESSIONS

Diagnosis? For acquisition information, turn to page 1266.



COMMENTARY

- 1385** **Position Statement: Clinical Use of Cardiac Positron Emission Tomography; the Cardiovascular Council of the Society of Nuclear Medicine**

DEPARTMENTS

- 1389** **Letters to the Editor**
- Book Reviews**
- 1396** **Reading the Chest Radiograph: A Physiologic Approach**
Reviewed by James A. Scott
- 1396** **MRI: Cardiovascular System**
Reviewed by Stephen W. Miller
- 1396** **Cancer Imaging Manual**
Reviewed by James A. Scott
- 35A** **Information for Authors**
- 37A** **Calendar**
- 38A** **Classified Advertising**
- 42A** **JNM Direct Response**

Notice to Authors

The mailing address of the Editor of the *Journal of Nuclear Medicine* has been changed.

All submissions and other editorial correspondence for JNM should now be sent to the following address:

Stanley J. Goldsmith, M.D., Editor
The Journal of Nuclear Medicine
136 Madison Ave.
New York, NY 10016-6760.
Phone: 212/889-1905; FAX: 212/889-6582

This mailing address supersedes the earlier Memorial Sloan-Kettering address, published in past issues of the Journal.