



Official Publication of
the Society of Nuclear Medicine

SNM NEWSLINE

- 13N** SNM Mid-Winter Meeting Highlights
- 16N** Scanning the Animal World
Deborah Kotz
- 22N** Commentary: ACNP Annual Meeting:
Speakers' Visions
- 25N** Navigating the Internet
Jill Steuer
- 40N** Overheard

HUMAN STUDIES

- 531** Rapid Calculation of Regional Cerebral Blood Flow and Distribution Volume Using N-Iodine-123-Iodoamphetamine and Dynamic SPECT
Hiroshi Ito, Hidehiro Iida, Peter M. Bloomfield, Matsutaro Murakami, Atsushi Inugami, Iwao Kanno, Hiroshi Fukuda and Kazuo Uemura
- 537** Indium-111-Pentetetotide Imaging in Intra-axial Brain Tumors: Comparison with Thallium-201 SPECT and MRI
Jong Doo Lee, Dong Ik Kim, Jong Tae Lee, Jin Woo Chang and Chang Yun Park
- 542** Somatostatin Receptor Imaging with Indium-111-Pentetetotide in Gastroenteropancreatic Neuroendocrine Tumors: Safety, Efficacy and Impact on Patient Management
François Jamar, René Fiasse, Norbert Leners and Stanislas Pauwels
- 550** Indium-111-Pentetetotide Scintigraphy in Graves' Ophthalmopathy
George Kahaly, Maria Diaz, Klaus Hahn, Jürgen Beyer and Andreas Bockisch
- 555** Assessment of Myocardial Viability after Thallium-201 Reinjection or Rest-Redistribution Imaging: A Multicenter Study
Eugenio Inglese, Marco Brambilla, Maurizio Dondi, PierLuigi Pieri, Gianni Bisi, Roberto Sara, Giorgio Cannizzaro, Mario Cappagli, Alessandro Giordano, Giovanni Moscatelli, Francesco Arrigo and GianLuigi Tarolo on behalf of the Italian Group of Nuclear Cardiology
- 564** Ambulatory Monitoring of Left Ventricular Function During Cardiopulmonary Exercise Tests in Normal Sedentary Subjects
Massimo Imbriaco, Alberto Cuocolo, Leonardo Pace, Antonio Nappi, Emanuele Nicolai, Stefania Cardei, Carmine Morisco, Massimo Romano and Marco Salvatore

- 569** Fast Stress and Rest Acquisitions for Technetium-99m-Sestamibi Separate-Day SPECT

E. Gordon DePuey, Kenneth J. Nichols, Jacek S. Slowikowski, William J. Scarpa Jr., Christopher J. Smith, Steven Melancon and Shawna Newman

- 575** Effects of Modified Pharmacologic Stress Approaches on Hyperemic Myocardial Blood Flow

Johannes Czernin, Martin Auerbach, Karl T. Sun, Michael Phelps and Heinrich R. Schelbert

- 581** Posterolateral Defect of the Normal Human Heart Investigated with Nitrogen-13-Ammonia and Dynamic PET

Richard M. de Jong, Paul K. Blanksma, Antoon T.M. Willemse, Rutger L. Anthonio, Joan G. Meeder, Jan Pruijm, Wim Vaalburg and Kong I. Lie

- 586** Phase I Radioimmunotherapy Trial with Iodine-131-CC49 in Metastatic Colon Carcinoma

C.R. Divgi, A.M. Scott, L. Dantis, P. Capitelli, K. Siler, S. Hilton, R.D. Finn, N. Kemeny, D. Kelsen, L. Kostakoglu, J. Schlom and S.M. Larson

- 593** Diagnosis of Chronic Liver Disease from Liver Scintiscans by Fuzzy Reasoning

Susumu Shiomi, Tetsuo Kuroki, Hisato Jomura, Tadashi Ueda, Naoko Ikeoka, Kenzo Kobayashi, Hozumi Ikeda and Hironobu Ochi

- 599** Determination of the Spleen-Blood Partition Coefficient for Water with Oxygen-15-Water and Oxygen-15-Carbon Dioxide Dynamic PET Steady-State Methods

Hiroki Taniguchi, Atsushi Oguro, Hiroshi Koyama, Keigo Miyata, Kazumi Takeuchi and Toshio Takahashi

- 603** Comparison of Single-Injection Multisample Renal Clearance Methods with and without Urine Collection

Charles D. Russell and Eva V. Dubovsky

- 607** Kinetics and Dosimetry of Thallium-201 in Human Testes

Dandamudi V. Rao, Basil J. Shepstone, Hugh B. Wilkins and Roger W. Howell

CASE REPORTS

- 610** Evaluation of Regional Cerebral Blood Flow in Areas of Massive Intracerebral Calcifications
Gulay A. Uygur, Yu Liu, Robert S. Hellman, Ronald S. Tikofsky and B. David Collier

- 613** Metastatic Follicular Carcinoma of the Thyroid: Reappearance of Radioiodine Uptake
Wim J.G. Oyen, Aart H. Mudde, Wim J.M. van den Broek and Frans H.M. Corstens

- 616** SPECT Diagnosis of Creutzfeld-Jacob Disease
J. Aharon-Peretz, A. Peretz, J.A. Hemli, S. Honigman and O. Israel

- 618** Indium-111-White Blood Cell Detection of Postradiation Vesicocutaneous Fistulas
Lawrence C. Swayne, Dan Peterson, James Collins and Craig A. Dise

- 620 Dopamine-Producing Paraganglioma Not Visualized by Iodine-123-MIBG Scintigraphy**
Teun van Gelder, Gert T. Verhoeven, Peter de Jong, H. Yoe Oei, Eric P. Krenning, Voislow D. Vuzevski and Anton H. van den Meiracker

LABORATORY STUDIES

- 623 Effect of Dose and Specific Activity on Tissue Distribution of Indium-111-Pentetretide in Rats**
Wout A.P. Breeman, Dik J. Kwekkeboom, Peter P.M. Kooij, Willem H. Bakker, Leo J. Hofland, Theo J. Visser, Geert J. Ensing, Steven W.J. Lamberts and Eric P. Krenning
- 628 Site-Specific Protein Synthesis in Liver Regeneration Determined by PET**
Masaaki Sugawara, Naoto Oku, Hideo Tsukada, Shingo Nishiyama and Shoji Okada
- 632 Effect of Graded Hypoxia on Retention of Technetium-99m-Nitroheterocycle in Perfused Rat Heart**
William L. Rumsey, Balvant Patel and Karen E. Linder
- 637 Myocardial Blood Flow and FDG Retention in Acutely Stunned Porcine Myocardium**
Edward O. McFalls, Herbert Ward, Peggy Fashingbauer, Gwen Gimmentad and Brad Palmer
- 644 Validation of 4-[Fluorine-18]Fluoro-3-Iodobenzylguanidine as a Positron-Emitting Analog of MIBG**
Ganesan Vaidyanathan, Donna J. Affleck and Michael R. Zalutsky

DOSIMETRY

- 651 Radiation Dosimetry for Bolus Administration of Oxygen-15-Water**
Claude Brihaye, Jean-Claude Depresseux and Dominique Comar

METHODOLOGY

- 657 A Rapid and Accurate Method to Realign PET Scans Utilizing Image Edge Information**
Jesper L.R. Andersson
- 670 Accurate Attenuation Correction Despite Movement during PET Imaging**
Jesper L.R. Andersson, Bengt E. Vagnhammar and Harald Schneider
- 679 Semiquantitative SPECT Tumor Uptake of Technetium-99m-Labeled Anti-CEA Monoclonal Antibody in Colorectal Tumor**
Norboru Oriuchi, Keigo Endo, Naoyuki Watanabe, Sumio Sugiyama, Takayuki Asao, Seiichi Takenoshita, Yukio Nagamachi and R.P. Baum
- 684 Difference Images Calculated from Ictal and Interictal Technetium-99m-HMPAO SPECT Scans of Epilepsy**
I. George Zubal, Susan S. Spencer, Khursheed Imam, John Seibyl, Eileen O. Smith, Gary Wisniewski and Paul B. Hoffer

FIRST IMPRESSIONS

A 33-year-old woman with recurrent nodular sclerosing Hodgkin's disease (clinical Stage III-A) presented with a new enlarged lymph node after six cycles of chemotherapy and fractionated irradiation with a total dose of 2690 cGy. Does this new finding indicate new disease? For acquisition information, turn to page 606.



- 690 Three-Dimensional Display of Surface Cortical Perfusion by SPECT: Application in Assessing Alzheimer's Disease**

Kazuo Hashikawa, Masayasu Matsumoto, Hiroshi Moriwaki, Naohiko Oku, Yutake Okazaki, Yujiro Seike, Toshiisa Uehara, Hirotaka Tanabe, Yasuhide Ohie, Takenobu Kamada and Tsunehiko Nishimura

- 697 Three-Dimensional Displays of Left Ventricular Epicardial Surface from Standard Cardiac SPECT Perfusion Quantification Techniques**
Tracy L. Faber, C. David Cooke, John W. Peifer, Roderic I. Pettigrew, John P. Vansant, John R. Leyendecker and Ernest V. Garcia

- 703 Editorial: Three-Dimensional Display in Nuclear Medicine: A More Useful Depiction of Reality, or Only a Superficial Rendering?**
Jonathan M. Links and Michael D. Devous, Sr.

DEPARTMENTS

- 568 Erratum**
- 705 Letters to the Editor**
- Book Reviews**
- 714 Nuclear Imaging in Drug Discovery and Approval**
Reviewed by H. William Strauss
- 714 Pediatric Nuclear Imaging**
Reviewed by James A. Scott
- 714 Physics and Radiobiology of Nuclear Medicine**
Reviewed by Pat Zanzonico
- 716 New Products**
- 52A Calendar**
- 56A Classified Advertising**
- 58A JNM Direct Response**