

JNM



Official Publication of
the Society of Nuclear Medicine

SNM NEWSLINE

- 13N Annual Meeting Preview: SNM Returns to Toronto**
Eleanore Tapscott
- 14N Education and Research Foundation Addresses Decline in Grant Applications**
Eleanore Tapscott
- 16N Nuclear Medicine Pioneer: Benedict Cassen The Rectilinear Scanner and an Enduring Legacy of Education and Research**
Eleanore Tapscott
- 18N Invited Commentary: B. Leonard Holman, MD, 1941-1998**
S. James Adelstein
- 22N Invited Commentary: The Department of Energy's Role in Isotope Availability for Nuclear Medicine Research**
Terry R. Lash
- 28N Lines From the President**
H. William Strauss
- 32N CHCPP News**
Wendy J.M. Smith
- 33N Government Relations Update**
David Nichols

NUCLEAR CARDIOLOGY

- 751 Diagnostic Accuracy of Technetium-99m-MIBI Myocardial SPECT in Women and Men**
César Santana-Boado, Jaume Candell-Riera, Joan Castell-Conesa, Santiago Aguadé-Bruix, Amparo García-Burillo, Teresa Canela, José Manuel González, Josefa Cortadellas, Domingo Ortega and Jordi Soler-Soler
- 756 Editorial: Stress Myocardial Perfusion SPECT in Women: Is It the Cornerstone of the Noninvasive Evaluation?**
Jean M. Cacciabauda and Rory Hachamovitch

NUCLEAR NEUROLOGY

- 760 PET Evaluation of Cerebral Hemodynamics in Occlusive Cerebrovascular Disease Pre- and Postsurgery**
Yasuo Kuwabara, Yuichi Ichiya, Masayuki Sasaki, Tsuyoshi Yoshida, Toshimitsu Fukumura, Kouji Masuda, Kiyotaka Fujii and Masashi Fukui
- 765 SPECT Imaging in Cerebral Vasospasm Following Subarachnoid Hemorrhage**
Rachel A. Powsner, Lorcan A. O'Tuama, Anthony Jabre and Elias R. Melhem
- 769 HMPAO Brain SPECT in Acute Carbon Monoxide Poisoning**
Chia-Hung Kao, Dong-Zong Hung, Sheng-Ping ChangLai, Ko-Kaung Liao and Poon-Ung Chieng
- 773 Technetium-99m-HMPAO Brain SPECT in Sjögren's Syndrome**
Chia-Hung Kao, Jung-Liang Lan, Sheng-Ping ChangLai and Poon-Ung Chieng

778 Preoperative Evaluation of 54 Gliomas by PET with Fluorine-18-Fluorodeoxyglucose and/or Carbon-11-Methionine

Bruno Kaschten, Achille Stevenaert, Bernard Sadzot, Manuel Deprez, Christian Degueldre, Guy Del Fiore, André Luxen and Michel Reznik

786 Decreased Brain Glucose Utilization in Patients with Cushing's Disease

Arturo Brunetti, Michael J. Fulham, Luigi Aloj, Bryan De Souza, Lynnette Nieman, Edward H. Oldfield and Giovanni Di Chiro

790 Technetium-99m-ECD SPECT Fails to Show Focal Hyperemia of Acute Herpes Encephalitis

Franz Fazekas, Gudrun Roob, Franz Payer, Peter Kapeller, Siegrid Strasser-Fuchs and Reingard M. Aigner

792 Reproducibility of the Distribution of Carbon-11-SCH 23390, a Dopamine D₁ Receptor Tracer, in Normal Subjects

Grace L.-Y. Chan, James E. Holden, A. Jon Stoessl, Doris J. Doudet, Yue Wang, Teresa Dobko, K. Scott Morrison, Joe M. Huser, Carolyn English, Barbara Legg, Michael Schulzer, Donald B. Calne and Thomas J. Ruth

NUCLEAR ONCOLOGY

798 Detection of Melanoma Metastases with Thallium-201 Scintigraphy

Lukas Rettenbacher, Josef Koller, Helmut Kässmann and Günther Galvan

802 Technetium-99m-Tetrofosmin Uptake in Brain Tumors by SPECT: Comparison with Thallium-201 Imaging

Andrea Soricelli, Alberto Cuocolo, Andrea Varrone, Antonietta Discepolo, Enrico Tedeschi, Pier Paolo Mainenti, Maria Rosaria Grivet-Fojaja, Eugenio Maria Covelli, Alfredo Postiglione and Marco Salvatore

807 Thallium-201 Scintigraphy to Predict Therapeutic Outcome of Iodine-131 Therapy of Metastatic Thyroid Carcinoma

Kunihiro Nakada, Chietsugu Katoh, Kakuko Kanegae, Eriko Tsukamoto, Tooru Shiga, Takafumi Mochizuki, Kazuo Itoh and Nagara Tamaki

810 Fluorine-18-Fluorodeoxyglucose Assessment of Glucose Metabolism in Bone Tumors

Annemieke C. Kole, Omgo E. Nieweg, Harald J. Hoekstra, James R. van Horn, Heimen Schraffordt Koops and Willem Vaalburg

815 FDG PET for Detection and Therapy Control of Metastatic Germ Cell Tumor

Uwe Cremerius, Peter J. Ejjert, Gerhard Adam, Osama Sabri, Michael Zimny, Gudrun Wagenknecht, Gerhard Jakse and Udalrich Buell

822 Hürthle Cell Tumor Dwelling in Hot Thyroid Nodules: Preoperative Detection with Technetium-99m-MIBI Dual-Phase Scintigraphy

Angelo Vattimo, Paolo Bertelli, Marcella Cintonino, Luca Burroni, Duccio Volterrani, Alessandra Vella and Stefano Lazzi

825 Biologic Dosimetry in Thyroid Cancer Patients After Repeated Treatments with Iodine-131

Radhia M'Kacher, Martin Schlumberger, Jean-Denis Légal, Dominique Violot, Nadine Béron-Gaillard, Anthony Gaussen and Claude Parmentier

829 Evaluation of the In Vivo Biodistribution of Yttrium-Labeled Isomers of CHX-DTPA-Conjugated Monoclonal Antibodies

Hisataka Kobayashi, Chuanchu Wu, Tae M. Yoo, Bao-Fu Sun, Debra Drumm, Ira Pastan, Chang H. Paik, Otto A. Gansow, Jorge A. Carrasquillo and Martin W. Brechbiel

- 836 Divalent Cobalt as a Label to Study Lymphocyte Distribution Using PET and SPECT**
Jakob Korf, Lammy Veenma-van der Duin, Rikje Brinkman-Medema, Anita Niemarkt and Lou F.M.H. de Leij
- 842 Yttrium-90-DOTA-Peptide-Chimeric L6 Radioimmunoconjugate: Efficacy and Toxicity in Mice Bearing p53 Mutant Human Breast Cancer Xenografts**
Sally J. DeNardo, David L. Kukis, Laird A. Miers, Michelle D. Winthrop, Linda A. Kroger, Qansy Salako, Sui Shen, Kathleen R. Lamborn, Paul H. Gumerlock, Claude F. Meares and Gerald L. DeNardo
- 849 Technetium-99m-Sestamibi Scintimammography for the Detection of Breast Carcinoma: Comparison Between Planar and SPECT Imaging**
Reinhold Tiling, Klaus Tatsch, Harald Sommer, Gabriele Meyer, Martina Pechmann, Katrin Gebauer, Wolfgang Münzing, Rainer Linke, Iraj Khalkhali and Klaus Hahn
- 856 Quantitative Imaging of Iodine-131 Distributions in Brain Tumors with Pinhole SPECT: A Phantom Study**
Mark F. Smith, David R. Gilland, R. Edward Coleman and Ronald J. Jaszczak

PEDIATRIC NUCLEAR MEDICINE

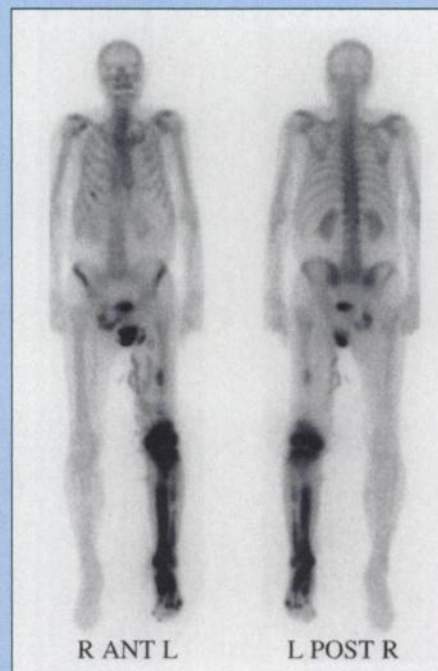
- 865 Gastric Emptying in Children**
Sydney Heyman

GENERAL NUCLEAR MEDICINE

- 870 Thyroglobulin and Low-Dose Iodine-131 and Technetium-99m-Tetrofosmin Whole-Body Scintigraphy in Differentiated Thyroid Carcinoma**
Hans Juergen Gallowitsch, Peter Mikosch, Ewald Kresnik, Oliver Unterweger, Iris Gomez and Peter Lind
- 875 Clinical Usefulness of Technetium-99m-HMPAO-Labeled Leukocyte Scan in Prosthetic Vascular Graft Infection**
Mauro Liberatore, Anna P. Iurilli, Fabio Ponzio, Daniela Prosperi, Claudio Santini, Pia Baiocchi, Luigi Rizzo, Francesco Speciale, Paolo Fiorani and Antonio Centi Colella
- 879 Dexamethasone Treatment and Plasma Glucose Levels: Relevance for Fluorine-18-Fluorodeoxyglucose Uptake Measurements in Gliomas**
Ulrich Roelcke, Ronald G. Blasberg, Klaus von Ammon, Silvia Hofer, Peter Vontobel, Ralph P. Maguire, Ernst W. Radü, Richard Herrmann and Klaus L. Leenders
- 884 Organ-Specific Insulin Resistance in Patients with Noninsulin-Dependent Diabetes Mellitus and Hypertension**
Ikuo Yokoyama, Tohru Ohtake, Shin-ichi Momomura, Katsunori Yonekura, Nobuhiro Yamada, Junichi Nishikawa, Yasuhito Sasaki and Masao Omata
- 889 Three-Dimensional Surface Display of Dynamic Pulmonary Xenon-133 SPECT in Patients with Obstructive Lung Disease**
Kazuyoshi Suga, Norihiko Kume, Kazuya Nishigauchi, Yasuhiko Kawakami, Takeo Kawamura, Tsuneo Matsumoto and Naofumi Matsunaga
- 893 Extraskelatal Uptake of Technetium-99m-MDP in Sites of Heparin Administration**
Sudha Challa and John H. Miller
- 895 Transferrin-Dependent Uptake and Dosimetry of Auger-Emitting Diagnostic Radionuclides in Human Spermatozoa**
Katharine P. Hoyes, Jo S. Nettleton, Richard S. Lawson and Ian D. Morris

FIRST IMPRESSIONS

A 73-yr-old man with severe pain in the left leg and elevated alkaline phosphatase. For acquisition information, turn to page 932.



- 900 In Vitro Demonstration of Synergy Between Radionuclide and Chemotherapy**
Norchen Chenoufi, Jean-Luc Raoul, Gérard Lescoat, Pierre Brissot and Patrick Bourguet
- 904 Correction for Partial Volume Effects in PET: Principle and Validation**
Olivier G. Rousset, Yilong Ma and Alan C. Evans
- 912 Use of Stabilized Technetium-99m-Exametazime for Radiolabeling Leukocytes**
Joseph C. Hung, Sushital Chowdhury and Brian P. Mullan

PROCEDURE GUIDELINES

- 918 Procedure Guideline for Myocardial Perfusion Imaging**
H. William Strauss, D. Douglas Miller, Mark D. Wittry, Manuel D. Cerqueira, Ernest V. Garcia, Abdulmassi S. Iskandrian, Heinrich R. Schelbert and Frans J. Wackers
- 923 Procedure Guideline for Brain Perfusion SPECT Using Technetium-99m Radiopharmaceuticals**
Jack E. Juni, Alan D. Waxman, Michael D. Devous, Sr., Ronald S. Tikofsky, Masanori Ichise, Ronald L. Van Heertum, B. Leonard Holman, Robert F. Carretta and Charles C. Chen

DEPARTMENTS

- 869 Erratum**
- 927 Letters to the Editor**
- 35A Calendar**
- 49A Classified Advertising**
- 50A JNM Direct Response**