The Journal of Nuclear Medicine

SNM NEWSLINE

Food Irradiation Buoyed by Regulatory and Scientific Acceptance but Held Back by Perception Problems  
Sarah M. Tilyou ........................................ 11A

NRC Exempts Very Low-Level Radioactive Waste  
Joan Hiam .................................................. 24A

ICRP Proposes Revised Exposure Limits for Radiation Workers  
Palash R. Ghosh ......................................... 25A

Commentary: Lines from the President: Nuclear Medicine's Best but Toughest Times  
Naomi P. Alazraki ....................................... 26A

News Briefs: IOM Brain Symposium Features Developments in Cerebral Imaging; NRC Seeks Data on Impact of Lower Dose Limits; DOE Awards SNM Member for Lifetime Achievement ............................... 32A

HUMAN STUDIES

Exercise Whole-Body Thallium Scintigraphy in the Diagnosis and Evaluation of Occlusive Arterial Disease in the Legs  
George M. Segall, Shelly E. Lennon, and C. Drew Stevick ........................................ 1443

Radioimmune Imaging of Bone Marrow in Patients with Suspected Bone Metastases from Primary Breast Cancer  
Carlos M. Duncker, Ignasi Carrió, Lluís Berná, Montserrat Estorch, Carmen Alonso, Belén Ojeda, Remedio Blanco, José-Ramón Góm, and Victoria Ortega .................................. 1450

Brain Perfusion SPECT Using an Annular Single Crystal Camera: Initial Clinical Experience  
B. Leonard Holman, Paulo A. Carvalho, Robert E. Zimmerman, Keith Johnson, Sabah S. Tumeh, Andrew P. Smith, and Sabastian Genna ........................................ 1456

Sincalide-Augmented Quantitative Hepatobiliary Scintigraphy (QHBS): Definition of Normal Parameters and Preliminary Relationship Between QHBS and Sphincter of Oddi (SO) Manometry in Patients Suspected of Having SO Dysfunction  
Walter E. Drane and David A. Johnson ............... 1462

Editorial: Quantitative Hepatobiliary Scintigraphy  
Wylie J. Dodds, Shekhar Thakur, and B. David Collier 1468

Scintigraphic Assessment of Indium-111-Labeled Granulocyte Pooling: A New Approach to Inflammatory Bowel Disease Activity  
Olivier Loréal, Annick Moisan, Jean-François Bretagne, Joseph LeCloître, Jean-Luc Raoul, Joseph Gastard, and Jean-Yves Herry ......................... 1470

McCune-Albright Syndrome: The Patterns of Scintigraphic Abnormalities  
Sean Pfeffer, Edgar Molina, Penelope Feuillan, and Theodore R. Simon ......................... 1474

Iodine-125-MIBG to Treat Neuroblastoma: Preliminary Report  
James C. Sisson, Raymond J. Hutchinson, Brahm Shapiro, Kenneth R. Zasadny, Daniel Normolle, Donald M. Wieland, Richard L. Wahl, Dale A. Singer, Shirley A. Mallette, and Elizabeth E. Mudgett ............ 1479

Serum Osteocalcin Measurements in Prostate Carcinoma Patients with Skeletal Deposits Shown by Bone Scintigram: Comparison with Serum PSA/PAP Measurements  
Wei-Jen Shih, Becky Wierzbinski, Judy Collins, Sylvia Magoun, I-Wen Chen, and U. Yun Ryo .............. 1486

Intravenous Erythromycin Dramatically Accelerates Gastric Emptying in Gastroparesis Diabeticorum and Normals and Abolishes the Emptying Discrimination Between Solids and Liquids  
J.L.C. Urbain, G. Vantrappen, J. Janssens, E. Van Cutsem, T. Peeters, and M. De Roo .......... 1490

LABORATORY STUDIES

A Model of Gastric Emptying in Cats Shows Solid Emptying is Promoted by MK-329: A CCK Antagonist  
Robert J. Gould, Christine Fioravanti, Patricia G. Cook, and Howard F. Solomon ................... 1494

Receptor Scintigraphy with a Radiiodinated Somatostatin Analogue: Radiolabeling, Purification, Biologic Activity, and In Vivo Application in Animals  
Wille H. Bakker, Eric P. Krenning, Wout A. Breeman, Jan W. Koper, Peter P. Kooij, Jean-Claude Reubi, Jan G. Klijn, Theo J. Visser, Roel Docter, and Steven W. Lamberts ............................. 1501

Metabolism of Indium-111-Labeled Murine Monoclonal Antibody in Tumor and Normal Tissue of the Athymic Mouse  
Cecilia Mota-Hennessy, Robert M. Sharkey, and David M. Goldenberg ....................... 1510
**FIRST IMPRESSIONS**

Fever of unknown origin and hypotension? For acquisition data and diagnosis, turn to page 1478.

**METHODOLOGY**

Scatter and Attenuation Correction in SPECT Using Density Maps and Monte Carlo Simulated Scatter Functions
Michael H. Ljungberg and Sven-Erik Strand 1560

Kit Preparation of Technetium-99m-Mercaptoacetyltriglycine: Analysis, Biodistribution and Comparison with Technetium-99m-DTPA in Patients with Impaired Renal Function
Kym M. Bannister, Stan Penglis, Johan C. Bellen, Richmond J. Baker, and Barry E. Chatterton 1568

**DEPARTMENTS**

Letters to the Editor
Clinical Function Following Stroke
Michael J. Kushner 1574

Reply
Norman L. Foster and James M. Mountz 1574

Diffuse Liver Uptake of Iodine-131
B. Schober, P. Cohen, D. Lyster, M. Charron, and B. Lentle 1575

Influence of Kidney Depth on the Renographic Estimation of Relative Renal Function
Philip Cosgroff and Hugh Brown 1576

Reply
Daniel C. Maneval and John H. Rodman 1577

Noninvasive Imaging of Giant Hematomas
Werner Langsteger, Peter Lind, Peter Költringer, and Otto Eber 1577

Book Reviews
MRI of the Musculoskeletal System: A Teaching File
Reviewed by James A. Scott 1579

NCRP Report No. 105, Radiation Protection for Medical and Allied Health Personnel
Reviewed by Frank P. Castronovo, Jr. 1579

Books Received 1579

Works-In-Progress 1580

Index to Advertisers 1594

Information for Authors 33A

Calendar 35A

Classified Advertising 41A

Technologist Job Network 43A

New Products 47A

---

**Immunoscintigraphy of Human Tumors Transplanted in Nude Mice with Radiolabeled Anti-ras p21 Monoclonal Antibodies**
Yuji Katoh, Keisuke Nakata, Kenji Kohno, Masayoshi Shima, Akira Satoh, Yukio Kasumoto, Nobuko Ishi, Toshihiko Kohji, Hiroshi Shiku, and Shigenobu Nagataki 1520

**Iodine-125-NRLU-10 Kinetic Studies and Bismuth-212-NRLU-10 Toxicity in LS174T Multicell Spheroids**

**Comparison of the Distribution of Bromine-77-Bromovinyl Steroidal and Triphenylethylene Estrogens in the Immature Rat**
Eugene R. Desombre, Alun Hughes, Ronnie C. Mease, and Paul V. Harper 1534

---

**CLINICAL PATHOLOGIC CONFERENCES**

Multifocal Skeletal Uptake of Labeled Leukocytes: Infection Versus Tumor Metastasis
Dietlind L. Wohner-Roedler 1543

---

**CASE REPORTS**

Indium-111-Labeled Leukocyte and Technetium-99m-Sulfur Colloid Uptake by a Malignant Fibrous Histiocytoma: Phagocytosis by Tumor Cells?
Christopher J. Palestro, Michael Klein, Chun K. Kim, Alfred J. Swoyer, and Stanley J. Goldsmith 1548

Splenic Accumulation of Technetium-99m-Methylene Diphosphonate in a Transfusion-Dependent Patient with a Chronic Myelogenous Leukemia
Dinko Franceschi, J. Stevan Nagel, and B. Leonard Holman 1552

Three-Phase Radionuclide Bone Imaging in Stress Injury of the Anterior Iliac Crest
John F. Rockett 1554

Peripheral Arteriovenous Malformation: Diagnosis and Localization by Intraarterial Injection of Technetium-99m-MAA
M.J. Lee, D.J. Dowsett, and J.T. Ennis 1557