CLINICAL SCIENCES

DIAGNOSTIC NUCLEAR MEDICINE

Computer Analysis of Radionuclide Esophageal Transit Studies
Herbert A. Klein and Arnold Wald ........................................... 957

Measurement of Splenic Function with Heat-Damaged RBCs: Effect of Heating Conditions:
Concise Communication
Peter E. Valk and Jennifer Guille ........................................... 965

Scintigraphic Findings in Large-Cell Lymphoma of the Spleen: Concise Communication
Karen K. Lindfors, Jack E. Meyer, Edwin L. Palmer, III, and Nancy L. Harris ............... 969

Definition of Hepatic Tumor Microcirculation by Single Photon Emission Computerized
Tomography (SPECT)
John W. Gyves, Harvey A. Zieissman, William D. Ensminger, James H. Thrall, John E. Niederhuber, John
W. Keyes, Jr., and Suzette Walker ........................................ 972

INVESTIGATIVE NUCLEAR MEDICINE

The Effect of Iatrogenic Trauma on the Bone Scintigram: An Animal Study: Concise
Communication
Naomi Alazraki, James Moitoza, James Heaphy, and Andrew Taylor, Jr. ....................... 978

CASE REPORTS

Postoperative Evaluation of Penetrating Hepatic Trauma and Complications
Myron L. Lecklitner and William Dittman ..................................... 982

Meta-[1-131]Iodobenzylguanidine Uptake in a Nonsecreting Paraganglioma
Andries J. Smit, Lammert H. van Essen, Harry Hollema, Frits A. J. Muskiet, and Do A. Piers ........ 984

Visualization of Hepatic Adenoma with Tc-99m diisopropyl IDA
Michael S. Kipper, Kenneth R. Reed, and Marcus Contardo .................................. 986

BASIC SCIENCES

RADIOCHEMISTRY AND RADIOPHARMACEUTICALS

N-13 L-Glutamate Uptake in Malignancy: Its Relationship to Blood Flow
Wolfram H. Knapp, Frantisek Helus, Hanjörg Sinn, Hermann Ostertag, Peter Georgi, Werner-E.
Brandes, and Arnim Braun .................................................. 989

Preparation and Evaluation of 17α-[125I]Iodovinyl-11β-Methoxyestradiol as a Highly
Selective Radioligand for Tissues Containing Estrogen Receptors: Concise Communication
Robert N. Hanson and Lothar A. Franke ................................ 998
INSTRUMENTATION
A Gamma Camera for Medical Applications, using a Multiwire Proportional Counter
Jeffrey L. Lacy, Adrian D. LeBlanc, John W. Babich, Michael W. Bungo, Larry A. Latson, Larry Poliner,
Robert H. Jones, and Philip C. Johnson ........................ 1003

Performance Evaluation of SPRINT, A Single Photon Ring Tomograph For Brain Imaging
W. Leslie Rogers, Neal H. Clinthorne, John Stamos, Kenneth F. Koral, Robert Mayans, Glenn F. Knoll,
Jack Junji, John W. Keyes and Beth A. Harkness ........................ 1013

TECHNICAL NOTES
An Electronic “Diaphragm” for the Gamma Camera, with Adjustable Zooming and Offset
C. Riccardo Bellina, Antonio Benassi, Alessandro Riva, and Riccardo Guzzardi .............................. 1019

A Special Cut-Off Gamma Camera for High-Resolution SPECT of the Head
Stig A. Larsson, Gustaf Bergstrand, Hans Bergstedt, Jan Berg, Olga Glygare, Per-Olof Schnell, Nils
Andersson, and Curt Lagergren .............................. 1023

ADJUNCTIVE MEDICAL KNOWLEDGE
Schilling Evaluation of Pernicious Anemia: Current Status
Lionel S. Zuckier and L. Rao Chervu .............................. 1032

TEACHING EDITORIAL
The Role of Radionuclide Studies in Esophageal Disease
Frederick L. Datz .............................. 1040

HISTORY
Cerebral Death: A Rapid and Reliable Diagnostic Adjunct Using Radioisotopes
P. Branenstein, I. Kricheff, J. Korein, and K. Corey .............................. 1047

LETTERS TO THE EDITOR
Repeatability of Estimates of Left-Ventricular Volume from Blood-Pool Counts: Concise Communication
L. Fridrich, M. Pichler, and A. Gassner .............................. 1049

Reply
R. J. Burns .............................. 1049

Re: Preparation of Sterile Xenon-133 in Saline for Tissue Perfusion Studies
Geoffrey Levine and Balwinder S. Mahli .............................. 1049

Reply
John C. Harbert and Howard J. DiPiazza .............................. 1050

Re: Computation of Ventilation-Perfusion Studies Ratio with Kr-81m in Pulmonary Embolism
John E. Arnold .............................. 1052
Reply
Michel Meignan and Alain Harf .................................................. 1053

Scintigraphic Evaluation of the Urinary System in a Case of Severe Renal Trauma
David L. Bushnell, Robert E. Polcyn, and David T. Uehling .................. 1053

ADDITIONS AND ERRATA
Perfusional Techniques for Screening Antibodies (Ab) in Living Tissue
G. L. DeNardo, A. W. Saxe, S. J. DeNardo, A. Epstein, and C. Suey .... 964

Gallium Imaging in Muscular Sarcoïdosis
G. Edan, P. Bourguet, Ph. Delavel, and J. Y. Herry .......................... 1022

BOOK REVIEWS
The Clinician’s Guide to Diagnostic Imaging
Reviewed by Gary F. Gates ............................................................. 1056

Medical Imaging of the Liver and Spleen
Reviewed by Dennis Patton ............................................................ 1056

Bone Metastasis: Monitoring and Treatment
Reviewed by Marvin Olson ............................................................. 1056

Radiotracers for Medical Applications (CRC Series in Radiotracers in Biology and Medicine)
Reviewed by Marc S. Berridge ....................................................... 1057

Radionuclides Production (Volume I and Volume II: CRC Series in Radiotracers in Biology and Medicine)
Reviewed by Jack Lancaster .......................................................... 1057

Computed Tomography of the Thorax
Reviewed by Jay Pearlberg ............................................................ 1058

ABSTRACTS OF CURRENT LITERATURE .................................. 1059

INFORMATION FOR AUTHORS .................................................. 1065

CALENDAR ................................................................. 1066, 30A

PLACEMENT ................................................................. 45A, 46A

Front Cover: A. Kearny Atkinson, M.D., one of the Founders of The Society of Nuclear Medicine, practice of Internal Medicine; retired.