CLINICAL SCIENCES

DIAGNOSTIC NUCLEAR MEDICINE

Validation of Corrections for Errors in Collimation During Measurement of Gastric Emptying of Nuclide-Labeled Meals

Error and Corrections with Scintigraphic Measurement of Gastric Emptying of Solid Foods

Fourier Amplitude Ratio: A New Way to Assess Valvular Regurgitation
   P. Todd Makler, Jr., David M. McCarthy, Michael G. Velchik, Harold A. Goldstein, and Abass Alavi  204

Relative Distribution of Diphosphonate Between Bone and Soft Tissue at 4 and 24 Hours: Concise Communication
   Marie L. Smith, William Martin, Ignac Fogelman, and Rodney G. Bessent  208

Diagnosis of Upper-Abdominal Infections by In-111 Labeled Leukocytes with Tc-99m Colloid Subtraction Technique
   Mechelien H. Rövekamp, E. A. van Royen, S.C.C. Reinders Folmer, and J. B. van der Schoot  212

Quantitative Biliary Dynamics: Introduction of a New Noninvasive Scintigraphic Technique
   Gerbail T. Krishnamurthy, Vishu R. Bobba, Donald McConnell, Fred Turner, Mohammad Mesgarzadeh, and Elizabeth Kingston  217

INVESTIGATIVE NUCLEAR MEDICINE

Effect of Hypophysectomy and Hormonal Replacement of the Uptake of Tc-99m Methylene Diphosphonate in the Metaphysis and Shaft of the Rat Femur: Concise Communication
   Richard S. Trow, Georgeanna J. Klingensmith, William C. Klingensmith III, William E. Huffer, and Donald S. Schalch  224

CASE REPORT

Radionuclide Angiographic Demonstration of Systemic Lung Arterialization with Arteriovenous Fistulas
   A. J. Brendel, J. P. Colle, J. L. Barat, and D. Ducassou  228

BASIC SCIENCES

RADIOCHEMISTRY AND RADIOPHARMACEUTICALS

Quantitative Autoradiography with Radiopharmaceuticals, Part 1: Digital Film-Analysis System by Videodensitometry: Concise Communication
   Yoshiharu Yonekura, A. Bertrand Brill, Prantika Som, Gerald W. Bennett, and I. Fand  231
Quantitative Autoradiography with Radiopharmaceuticals, Part 2: Applications in Radiopharmaceutical Research: Concise Communication

PHYSICS AND RADIATION BIOLOGY
Performance Evaluation of a Positron Tomograph Designed for Brain Imaging
Edward J. Hoffman, Michael E. Phelps, and Sung-Cheng Huang

Accuracy of Deconvolution Algorithms Assessed by Simulation Studies: Concise Communication
Alvin Kuruc, S. Treves, and J. Anthony Parker

TEACHING EDITORIAL
Technical Factors in Gastric Emptying Studies
Paul E. Christian, Frederick L. Datz, James A. Sorenson, and Andrew Taylor

STATISTICS
Statistics for Nuclear Medicine Part 3: A. Comparing Two Proportions (The Relative Deviate Test and Chi-Square Equivalent) B. Counting Data
Peter C. O'Brien, Marc A. Shampo, and James S. Robertson

LETTERS TO THE EDITOR
TI-201 Single-Photon Emission Computed Tomography (SPECT)
Jean C. Maublant
Reply
R. Edward Coleman and Ronald J. Jaszczak
Reply
Nagara Tamaki
Soft-Tissue Uptake of Tc-99m MDP in Secondary Scrotal Lymphedema
B. Rama Rao and David W. Hodgens

BOOK REVIEWS
Pathology and Radiation Injury
Reviewed by C. C. Lushbaugh
A Handbook of Nuclear Pharmacy
Reviewed by John J. Coupal
X-Ray Measurements and Protection, 1913-1964
Reviewed by J. Lawrence Beach
Computerized Tomography in the Evaluation of Trauma
Reviewed by Steven J. Goldstein ........................................... 277

Selected Techniques in Interventional Radiology (SMCR Series Volume 19)
Reviewed by Seymour Sprayegen and Leonard M. Freeman .................. 277

ABSTRACTS OF CURRENT LITERATURE ........................................ 278
INFORMATION FOR AUTHORS .................................................. 283
CALENDAR .......................................................... 284, 32A
PLACEMENT .................................................. 37A, 38A, 39A, 40A, 41A, 42A