

CLINICAL SCIENCES

DIAGNOSTIC NUCLEAR MEDICINE

Tc-99m Hydroxymethylene Diphosphonate and Tc-99m Methylene Diphosphonate: Biological and Clinical Comparison: Concise Communication
 James L. Littlefield and Thomas G. Rudd 463

Radiographic and Scintigraphic Skeletal Imaging in Patients with Neuroblastoma: Concise Communication
 Martin Baker, Aslam R. Siddiqui, Arthur Provisor, and Mervyn D. Cohen 467

ECG-Gated Blood-Pool Study of Carotid Arterial Pulsation as a Sign of Stenosis: Concise Communication
 M. A. Winston and Stanley N. Cohen 470

Radionuclide Angiography as the Primary Investigation in Chemodectoma: Concise Communication
 James D. Laird, W. Rodney Ferguson, Edwin M. McIlrath, and J. R. Leslie Hamilton 475

The Use of Radionuclides in the Investigation of Conjoined Twins
 Michael D. Mann, Jill P. Coutts, Ronald O. C. Kaschula, C. Brian Fraser, Renee M. Fisher, and Sidney Cywes 479

INVESTIGATIVE NUCLEAR MEDICINE

Technetium-99m(Sn²⁺)Pyrophosphate in Ischemic and Infarcted Dog Myocardium in Early Stages of Acute Coronary Occlusion: Histochemical and Tissue-Counting Comparisons
 Jesus A. Bianco, Andrew J. Kemper, Arthur Taylor, Joel Lazewatsky, Donald E. Tow, and Shukri F. Khuri 485

A Comparison of Infarct Identification with Technetium-99m Pyrophosphate and Staining with Triphenyl Tetrazolium Chloride
 Carlos Izquierdo, Michael D. Devous, Sr., Pascal Nicod, L. Maximillian Buja, Robert W. Parkey, Fredrick J. Bonte, James T. Willerson, and Samuel E. Lewis 492

IN VITRO NUCLEAR MEDICINE

Clinical Assessment of a Radioimmunoassay for Free Thyroxine Using a Modified Tracer
 Daniel W. Chan, John M. Waud, and Tah Hsiung Hsu 498

CASE REPORTS

[¹³¹I]Iodocholesterol Scintiscan and Rare "Functional" Black Adenoma of the Adrenal Cortex
 Russell M. Dixon, Lionel M. Lieberman, Howard R. Gould, and Gholam-Reza Hafez 505

Diffuse Abdominal Uptake of Ga-67 Citrate in a Patient with Hypoproteinemia
 E. Edmund Kim, Allan Gobuty, and Carlos Gutierrez 508

BASIC SCIENCES

RADIOCHEMISTRY & RADIOPHARMACEUTICALS

A Conveniently Prepared Tc-99m Resin for Semisolid Gastric Emptying Studies
 N. Wirth, D. Swanson, B. Shapiro, M. Nakajo, J. L. Coffey, F. Eckhauser, and C. Owyang 511

L-[1-¹¹C]Leucine: Routine Synthesis by Enzymatic Resolution
 J. R. Barrio, R. E. Keen, J. R. Ropchan, N. S. MacDonald, F. J. Baumgartner, H. C. Padgett, and M. E. Phelps 515

Estrogen Receptor Binding Radiopharmaceuticals: II. Tissue Distribution of 17 α -Methylestradiol in Normal and Tumor-Bearing Rats
 A. Feenstra, W. Vaalburg, G. M. J. Nolten, S. Reiffers, A. G. Talma, T. Wiegman, H. D. van der Molen, and M. G. Woldring 522

TECHNICAL NOTES

An Automated Method for the Normalization of Scintigraphic Images
 Alain Venot, Jean-François Lebruchec, Jean-Louis Golmard and Jean-Claude Roucayrol 529

Noise Reduction in Nuclear Medicine Images
 C. C. Kuni, B. H. Hasegawa, and W. R. Hendee 532

STATISTICS

Statistics for Nuclear Medicine Part 6: Normal Values, Evaluating a New Diagnostic Procedure, Sequential Methods, and Conclusion
 Peter C. O'Brien, Marc A. Shampo, and James S. Robertson 535

LETTERS TO THE EDITOR

Re: Interpretation of Multigated Fourier Functional Images
 Mauricio Vergara 542

Reply
 Richard E. Wendt III and Paul H. Murphy 542

Dependence of Distribution of Short-Lived Tracers on Decay. A Noncompartmental Approach
 Karin Knešaurek 543

Reply
 H. I. Modell and M. M. Graham 543

Abnormal Perfusion Scan Due to Intrathoracic Stomach and Colon
 E. T. Jones, B. Rama Rao 544

Re: Concerning the Labeling of DTPA-Coupled Proteins with Tc-99m
 D. J. Hnatowich, D. Lanteigne, R. L. Childs, and P. W. Doherty 544

Reply	
B. A. Khaw, H. W. Strauss, A. Carvalho, E. Locke, H. K. Gold, and E. Haber	545
On Behalf of I-123 Fatty Acids for Myocardial Metabolic Imaging	
Ludwig E. Feinendegen and Walton W. Shreeve	546
Reply	
Richard A. Goldstein	546
 ADDITIONS AND ERRATA	
Absorbed Dose Estimates for Positron Emission Tomography (PET): C ¹⁵ O, ¹¹ CO, and CO ¹⁵ O	
Kimberlee Kearfott	555
 BOOK REVIEWS	
Tumor Imaging: Current State of the Art and Recommendations for Future Research	
Reviewed by Gerald DeNardo	547
Atlas of Total Body Radionuclide Imaging, Vol. I & II	
Reviewed by Heinz Wahner	548
Vascular Malformations and Fistulas of the Brain (Seminars in Neurological Surgery)	
Reviewed by Douglas Savage and J. Parker Mickle	548
Radioimmunoassay of Gut Regulatory Peptides	
Reviewed by William M. Reilly and Vay Liang W. Go	549
Radionuclide Imaging in Drug Research	
Reviewed by William Pettit	549
Self-Assessment of Current Knowledge in Nuclear Medicine (Second Edition)	
Reviewed by Wei-Jen Shih	550
ABSTRACTS OF CURRENT LITERATURE	551
INFORMATION FOR AUTHORS	557
CALENDAR	558, 53A, 54A, 55A
PLACEMENT	45A, 46A, 47A