

**LETTER FROM THE EDITOR** ..... 1097

---

**CLINICAL SCIENCES**

---

**DIAGNOSTIC NUCLEAR MEDICINE**

Clinical Validation of Fully Automated Computation of Ejection Fraction from Gated Equilibrium Blood-Pool Scintigrams  
 Johan H. C. Reiber, Swan Peng Lie, Maarten L. Simoons, Cees Hoek, Jan J. Gerbrands, William Wijns, Willem H. Bakker, and Peter P. M. Kooij ..... 1099

Scintigraphic Estimation of Arterial and Portal Blood Supplies to the Liver  
 J. S. Fleming, D. M. Ackery, B. H. Walmsley, and S. J. Karran ..... 1108

Indium-111 Chloride Imaging in Patients with Suspected Abscesses: Concise Communication  
 Betty A. Sayle, Suppiah Balachandran, and Charles A. Rogers ..... 1114

Uptake of Tc-99m Di-isopropyliminodiacetic Acid by Hepatocellular Carcinoma: Concise Communication  
 Ina Savitch, Michael C. Kew, Alan Peterson, Jan D. Esser, and Joseph Levin ..... 1119

Functional Asplenia in Patients with Chronic Graft-Versus-Host Disease: Concise Communication  
 Mohammed A. Al-Eid, Peter J. Tutschka, Henry N. Wagner, Jr., George W. Santos, and Min-Fu Tsan ..... 1123

**INVESTIGATIVE NUCLEAR MEDICINE**

Inverse Relationship Between Cardiac Accumulation of Meta<sup>[131I]</sup>-Iodobenzylguanidine (I-131 MIBG) and Circulating Catecholamines in Suspected Pheochromocytoma  
 M. Nakajo, B. Shapiro, J. Glowniak, J. C. Sisson, and W. H. Beierwaltes ..... 1126

Regional Blood-Flow Measurement in Rabbit Soft-Tissue Tumor with Positron Imaging Using the C<sup>15O</sup><sub>2</sub> Steady-State and Labeled Microspheres  
 A.-L. Kairento, G. L. Brownell, J. Schluederberg, and D. R. Elmaleh ..... 1135

**IN VITRO NUCLEAR MEDICINE**

Would I-123 Di-Iodotyrosine Provide a Harmless Deiodination Test? Concise Communication  
 A. Aurengo, F. Savoie, A. F. Leger, and J. C. Savoie ..... 1143

**CASE REPORTS**

Pulmonary Perfusion "Without Ventilation"  
 Christopher N. Chapman, John J. Sziklas, Richard P. Spencer, and Ronald J. Rosenberg ..... 1149

Scintigraphic Demonstration of Tracheo-Esophageal Fistula  
 Eddy K. Dunn, André C. Man, Ke-jian Lin, Harley D. Kaufman, and Nathan A. Solomon ..... 1151

Cardiac Aneurysm Complicated by *E. coli* Abscess  
 Frederick E. Reinke, David L. Yuille, Leon J. Jackson, Howard J. Zeft, and Donald C. Mullen ..... 1154

Factors Influencing DTPA Conjugation with Antibodies by Cyclic DTPA Anhydride  
 C. H. Paik, M. A. Ebbert, P. R. Murphy, C. R. Lassman, R. C. Reba, W. C. Eckelman, K. Y. Pak, J. Powe, and Z. Stepewski ..... 1157

Thallium-201: An Experimental and a Theoretical Radiobiological Approach to Dosimetry  
A. I. Kassis, S. J. Adelstein, C. Haydock, and K. S. R. Sastry ..... 1164

Optimum Fourier Filtering of Cardiac Data: A Minimum-Error Method: Concise  
Communication  
Stephen L. Bacharach, Michael V. Green, Dino Vitale, Gale White, Margaret A. Douglas, Robert O.  
Bonow, and Steven M. Larson ..... 1176

**TECHNICAL NOTES**

The Production in High Yield of N<sup>3</sup>-(4-[<sup>11</sup>C]Methyl)-Imipramine  
Hugo Denutte, Patrick Goethals, Harry Cattoir, Marc Bogaert, Tony Vandewalle, Carlo Vandecasteele,  
Jozef Jonckheere, and Andre De Leenheer ..... 1185

Detection of Compartmental Slippage in Noninvasive rCBF Measurements  
K. Herholz, W.-D. Heiss, G. Pawlik, H. W. Ilsen, and K. Wienhard ..... 1188

**ADJUNCTIVE MEDICAL KNOWLEDGE**

Particulate Radiations Emitted during Electron Capture and Isomeric Transitions  
William R. Hendee ..... 1192

**TEACHING EDITORIAL**

Heart Imaging in the Diagnosis of Pheochromocytoma and Assessment of Catecholamine  
Uptake  
William Muir Manager and Brian B. Hoffman ..... 1194

**LETTERS TO THE EDITOR**

Re: Determination of Organ Volume by Single Photon Emission Tomography  
Berndt Söderborg, Mats Dahlborn, Nils Karlberg, and Johan Virgin ..... 1197

Reply  
W. N. Tauxe and Andrew Edward Todd-Pokropek ..... 1198

Radionuclide Techniques for Valvular Regurgitant Index  
Edward G. M. D'Haene, Cornelis Sterk, and Herman Fintelman ..... 1199

Reply  
Pacal Nicod, James R. Corbett, Brian G. Firth, Gregory J. Dehmer, Carlos Izquierdo, Roy V. Markham,  
L. David Hillis, James T. Willerson, and Samuel E. Lewis ..... 1200

Comparison of Tc-99m MDP, HMDP, and DPD with Respect to Bone-to-Soft Tissue Ratios  
Udalrich Buell, Carl-Martin Kirsch, Eduard Kleinhans, and Brigitte Jäger ..... 1201

Reply  
Thomas G. Rudd and James L. Littlefield ..... 1202

Tc-99m MDP and Ga-67 Citrate Accumulation in Cutaneous Metastases from Colon  
Carcinoma  
Christopher J. Palestro, Anthony Coscia, and Alan H. Richman ..... 1202

Polarity in a Hexagonal Collimator  
En-Lin Yeh ..... 1203

**BOOK REVIEWS**

Radioisotopes in Cardiology	
Reviewed by J. A. Bianco .....	1205
1983 Year Book of Nuclear Medicine	
Reviewed by Rex Shafer .....	1205
Segmental Anatomy: Applications to Clinical Medicine	
Reviewed by Frank H. DeLand .....	1205
Diagnosis and Treatment of Bone Tumors: A Team Approach	
Reviewed by Norman Jaffe .....	1206
Digital Radiography: A Focus on Clinical Utility	
Michael W. Vannier .....	1206
<b>1983 AUTHOR INDEX</b> .....	1213
<b>1983 SUBJECT INDEX</b> .....	1221
<b>ABSTRACTS OF CURRENT LITERATURE</b> .....	1207
<b>INFORMATION FOR AUTHORS</b> .....	1249
<b>CALENDAR</b> .....	1250, 26A
<b>PLACEMENT</b> .....	41A, 42A, 43A