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**Prognostic Value of Cardiac Metaiodobenzyl-Guanidine Imaging in Patients with Heart Failure**

Ninety patients suffering from either ischemic or idiopathic cardiomyopathy were evaluated for MIBG cardiac uptake, radionuclide left ventricular ejection fraction, x-ray cardiothoracic ratio and echocardiographic M-mode data. . . . . Page 471

**Editorial: Prognosis in Congestive Heart Failure: What Information Can Best Predict the Future? . . . Page 477**

**Intrasubject Comparison Between Technetium-99m-ECD and Technetium-99m-HMPAO in Healthy Humans**

The pharmacokinetics and quality of planar and SPECT brain images of <sup>99m</sup>Tc-HMPAO and <sup>99m</sup>Tc-ECD were compared in seven, healthy normal subjects. . . . . Page 480

**Detection of Bilateral and Symmetrical Anomalies in Technetium-99m-HMPAO Brain SPECT Studies**

To obtain normal values of antero-posterior rCBF distribution of patients with a low probability of having cerebral lesions, <sup>99m</sup>Tc-HMPAO brain studies were analyzed semiquantitatively. . . . . Page 485

**A Retrospective Study of Radiolabeled Granulocyte Kinetics in Patients with Systemic Vasculitis**

In a retrospective review of 12 patients with systemic vasculitis and renal disease, increased diffuse lung uptake was observed after the injection of <sup>111</sup>In-labeled granulocytes or <sup>99m</sup>Tc-HMPAO labeled leukocytes in all patients with Wegener's granulomatosis and in three with microscopic polyarteritis. . . . . Page 491

**Pharmacokinetics of Indium-111-Labeled B72.3 Monoclonal Antibody in Colorectal Cancer Patients**

The pharmacokinetics of labeled B72.3 anti-TAG-72 Mab were determined in 11 patients entered in a Phase I/II clinical trial for detection of colorectal cancer. Data were analyzed to determine the effect of circulating TAG-72 antigen. . . . . Page 498

**Identification of Viable Myocardium in Patients with Chronic Coronary Artery Disease: Comparison of Thallium-201 Scintigraphy with Reinjection and Technetium-99m-Methoxyisobutyl Isonitrile**

The ability of <sup>201</sup>Tl with reinjection and <sup>99m</sup>Tc-MIBI to identify viable myocardium was compared in 20 male patients with angiographically-proven coronary artery disease and left ventricular dysfunction. . . . . Page 505

**Pulmonary Disposition of Gallium-67 in Patients with *Pneumocystis* Pneumonia: An Analysis Using Bronchoalveolar Lavage**

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**Subchondral Bone Infractures in Acute Ligamentous Knee Injuries Demonstrated on Bone Scintigraphy and Magnetic Resonance Imaging**

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**Distribution of Carbon-11-Cocaine in Human Heart, Lung, Liver and Adrenals: A Dynamic PET Study**

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**Technetium-99m-Labeled Anti-Granulocyte Antibodies in Suspected Bone Infections**

Thirty unselected patients with suspected bone infections were studied prospectively with the monoclonal <sup>99m</sup>Tc-labeled antigranulocyte antibody. Planar whole-body scans were performed 4, and 20-24 hr after administration of 500 Mbq of the labeled antibody. . . . . Page 526

**Studies of Primary Central Nervous System Lymphoma with Fluorine-18-Fluorodeoxyglucose Positron Emission Tomography**

Ten patients with primary CNS lymphoma were studied with <sup>18</sup>F-FDG and PET to demonstrate the findings in patients with this rare tumor. . . . . Page 532

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**Editorial: Gallbladder Ejection Fraction: A Decade of Progress and Future Promise. . . . . Page 542**

**Myocardial Na, K-ATPase Imaging Using Iodine-123-Labeled Digoxin**

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**Technetium-99m-L,L-Ethylene-dicysteine: A Renal Imaging Agent. I. Labeling and Evaluation in Animals**

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An analog of the antiprogestin RU486, modified to incorporate an N2S2 chelate system in the 11β-position, was labeled with <sup>99</sup>Tc, <sup>99m</sup>Tc, and <sup>186</sup>Re.. Page 558

**Reduced Hepatic Accumulation of Radiolabeled Monoclonal Antibodies with Indium-111-Thioether-Poly-L-Lysine-DTPA Monoclonal Antibody-TP41.2 F(ab')<sub>2</sub>**

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**Fluorine-18-Antimyosin Monoclonal Antibody Fragments: Preliminary Investigations in a Canine Myocardial Infarct Model**

Antimyosin monoclonal antibody fragments were labeled with <sup>18</sup>F using a succinimidyl [<sup>18</sup>F]fluorobenzylamine ester acylation agent. Six dogs had myocardial infarction induced by coronary artery occlusion and were

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**Contribution of Labeled Carbon Dioxide to PET Imaging of Carbon-11-Labeled Compounds**

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**Design Features and Performance of a PET System for Animal Research**

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**Use of the Abdominal Aorta for Arterial Input Function Determination in Hepatic and Renal PET Studies**

The technique was validated by comparing PET measurements of abdominal aortic activity to well counter measurements of arterial blood samples from canine renal studies and to PET measurements of left ventricular cavity activity in eight human hepatic studies..... Page 613

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**Positron Emission Tomography Using Fluorine-fluoro-deoxy-glucose in Malignant Lymphoma: A Comparison with Proliferative Activity**

FDG PET was performed in 23 patients with malignant lymphoma and the indices obtained from these studies were compared to pathologic findings. .... Page 623