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Dual-isotope results were compared to those obtained using sequential 133Xe SPECT scans in subjects with known stable cerebrovascular disease.

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The Role of Sestamibi Scintigraphy in the Radiosotopic Assessment of Myocardial Viability

The relationship between sestamibi uptake as a marker of myocardial viability and post-revascularization recovery was studied in 14 patients who underwent sestamibi scintigraphy, quantitative coronary angiography and two-dimensional echocardiography.

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PET-Fluorodeoxyglucose of Cranial and Spinal Neuromas

Five patients with eighth nerve, one with ninth nerve, and one with cervical neuromas were studied with PET and [18F]fluorodeoxyglucose. Four of the patients had surgery prior to the study, and six had subsequent surgery.

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Can Dynamic Krypton-81m Imaging Separate Regional Ventilation and Volume?

Dynamic acquisition of 81mKr ventilation images permits the creation of time-activity curves and the possible separation of the confounding influences of ventilation and volume... Page 1935

Editorial: Go with the Flow– But How Far?.............. Page 1939

Brain SPECT in Neonates Following Extracorporeal Membrane Oxygenation: Evaluation of Technique and Preliminary Results

Regional cerebral blood flow alterations were measured using SPECT and 99mTc-HMPAO following extracorporeal membrane oxygenation in 13 newborns.............. Page 1943

Human Pharmacokinetics and Radiopharmacological Studies of the Myocardial Perfusion Agent: Technetium (2-Carbomethoxy-2-Isocyanopropane)2

Dynamic imaging and HPLC analysis were performed in humans and guinea pigs to outline the pharmacological basis of the kinetics of 99mTc-CPI.

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Specific and Nonspecific Immunoassays to Detect HAMA After Administration of Indium-111-Labeled Monoclonal Antibody to Patients with Ovarian Cancer

Three specific OVT-L3-based HAMA assays were developed and tested, along with two commercially available HAMA assays, for their ability to identify the presence of HAMA in serum from patients injected with 111In OVT-L3-F(ab')2. ..................... Page 1958

Dynamic SPECT Imaging of Fopamine D2 Receptors in Human Subjects with Iodine-123-IBZM

Serial SPECT scans and arterial blood measurements of radiolabeled metabolites were obtained in order to assess dynamic aspects of the uptake and washout of brain activity.

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Intratumoral Distribution of Fluorine-18-Fluorodeoxyglucose In Vivo: High Accumulation in Macrophages and Granulation Tissues Studied by Microautoradiography

By using micro- and macroautoradiography, the cellular localization of [18F]FDG and 3H-Dg in vivo tumors transplanted subcutaneously in mice were studied 1 hr after intravenous injection........ Page 1972

Metabolic Design of Combination Therapy: Use of Enhanced

Fluorodeoxyglucose Uptake Caused by Chemotherapy

MCF7 cells were studied with 14C-FDG to determine the time course of changes in uptake after chemotherapy.

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Comparison of Technetium-99m-Glucarate and Thallium-201 for the Identification of Acute Myocardial Infarction in Rats

Serial injections and images were recorded over 10 days following ligation of the left anterior descending coronary artery of a rat. Distribution of 99mTc-glucarate was compared to regional myocardial perfusion monitored with 201TI. Findings on the images were compared to histological changes in the myocardium............. Page 1988

Imaging of Cardiac Transplantation Rejection in Primates Using Two New Antimyosin Agents

Two new antimyosin imaging agents experimentally shown to potentially improve dosimetry, shorten time from injection to imaging or decrease nonspecific cell binding were evaluated in a primate cardiac transplant model.................. Page 1994

Experimental and Clinical Analysis of the Characteristics of a Chimeric Monoclonal Antibody, MOV18, Reactive with an Ovarian Cancer-Associated Antigen

The in vivo binding characteristics of the chimeric MOV18, both as IgG and F(ab')2 fragments, were compared to those of the parental murine Mab. Additionally, the pharmacokinetics and biodistribution of m- and c-MOV18 in a human ovarian cancer xenograft model were studied.................. Page 2000

Pretargeted Immunoscintigraphy: Effect of Hapten Valency on Murine Tumor Uptake

By using bivalent "Janus" haptens with an apparent enhanced affinity for antibodies, a pre-targeted method of radioimmunoscintigraphy was evaluated.................. Page 2006
Diffuse Thallium-201-Chloride Uptake in Hypermetabolic Bone Marrow Following Treatment with Granulocyte Stimulating Factor

A patient, presenting with AIDS and Kaposi’s sarcoma developed severe leukopenia that was treated with granulocyte stimulating factor. Following chemotherapy, the tumor was negative for thallium uptake, but bone marrow uptake was seen. Page 2014

Abnormal Intracerebral Thallium Localization in a Bacterial Brain Abscess

A 56-yr-old man with a history of renal cell carcinoma had moderately intense abnormal localization of 201TI-chloride in a solitary brain lesion. Page 2017

PET Scanning of Iodine-124-3F9 as an Approach to Tumor Dosimetry During Treatment Planning for Radioimmunotherapy in a Child with Neuroblastoma

PET was used to determine the time varying concentration of an 124I-labeled antibody in a patient over several days, permitting the prediction of the radiation dose received from a subsequent administration of labeled antibody. Page 2020

An Autonomously Functioning Thyroid Carcinoma Associated with Euthyroid Graves’ Disease

A thyroid scan of a 39-yr-old man with thyroid carcinoma revealed a hot nodule corresponding to the location of a papillary carcinoma, which remained substantially unchanged after T3 administration. Page 2024


Two young women with acute sarcoidosis underwent 111In-labeled autologous leukocyte imaging because of persistent fevers. Page 2027

Dual-Isotope Brain SPECT Imaging with Technetium-99m and Iodine-123: Validation by Phantom Studies

Phantom studies were employed to determine if new high-resolution, three-headed SPECT is suitable for the simultaneous acquisition of 99mTc and 123I. Page 2030


Prognostic Value of Captopril Renal Scintigraphy in Renovascular Hypertension

Preoperative captopril renograms of 51 hypertensive patients were correlated with blood pressure results at 6- and 12-mo follow-up. Page 2040

Editorial: Captopril Renal Scintigraphy—A Way to Distinguish Functional from Anatomic Renal Artery Stenosis Page 2045

The “Well Tempered” Diuretic Renogram: A Standard Method to Examine the Asymptomatic Neonate with Hydronephrosis or Hydroureteronephrosis

Members of the Society of Fetal Urology and the Pediatric Nuclear Medicine Council—the Society of Nuclear Medicine have formulated a standard methodology for the following facets of diuretic renography: patient preparation, diuresis renography technique and data analysis. Page 2047

Diffuse Abdominal Uptake of Technetium-99m-Methylene Diphosphonate in a Patient on Continuous Ambulatory Dialysis During Bone Scintigraphy

A 41-yr-old female with end stage renal disease presented for bone scintigraphy. Unexpected abdominal uptake of tracer was seen. Page 2052