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1851 Analysis of V/Q Defects and Chest Radiographic Opacities

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1998 Cardiac Phantom Evaluation

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Samarium-153-EDTMP in Bone Metastases of Hormone Refractory Prostate Carcinoma: A Phase I/II Trial

This bone-seeking radiopharmaceutical was given to 52 prostate cancer patients in a dose escalation protocol for pain palliation so as to determine the maximally tolerated dose page 1839

Effect of Motion on Thallium-201 SPECT Studies: A Simulation and Clinical Study

Seventy-four motion patterns were simulated on a normal study and the tomograms were assessed for the presence of defects page 1845

Detailed Analysis of Patients with Matched Ventilation-Perfusion Defects and Chest Radiographic Opacities

A retrospective analysis of data from the PLOPED study is presented to determine the prevalence and distribution of pulmonary embolism in patients with matching ventilation-perfusion defects and chest radiographic opacities. page 1851

Abnormalities on Ventilation/Perfusion Lung Scans Induced by Bronchoalveolar Lavage

Ventilation-perfusion lung scans and chest x-rays were performed before and after lavage in ten normal volunteers to assess whether bronchoalveolar lavage produces significant abnormalities in these imaging studies page 1854

Controlled Delivery of Krypton-81m Boli in Normal Subjects: Results and Implications

The importance of interregional sequential filling was investigated quantitatively in ten normal volunteers under near-tidal breathing conditions in the upright lung using a short-lived radioactive tracer page 1859

Cholescintigraphy in the Diagnosis of Acute Cholecystitis: Morphine-Augmentation Is Superior to Delayed Imaging

The authors evaluate the efficacy of morphine-augmentation as compared to delayed imaging in 91 cases where the gallbladder was not visualized during the first hour of study page 1866

Left Ventricular Ejection Fraction Assessed from Gated Technetium-99m-Sestamibi SPECT

To determine if LVEF can be measured from gated MIBI SPECT, 30 patients underwent gated SPECT 60 min after receiving 22-30 mCi ^{99m}Tc-MIBI during treadmill exercise page 1871

Left Ventricular Peak Power During Exercise: A Noninvasive Approach for Assessment of Contractile Reserve

Cardiac peak power, a contractility index based upon instantaneous changes in intracavitary pressure and systolic peak flow, was measured at rest and during supine exercise in 26 patients with CAD and 8 healthy subjects page 1877

PET Imaging Of Non-Small-Cell Lung Cancer with Carbon-11-Methionine: Relationship Between Radioactivity Uptake and Flow-Cyometric Parameters

Following ¹¹C-methionine PET scans of 24 patients under consideration for surgical treatment for non-small-cell lung carcinoma, the tumors were removed and subjected to DNA flow cytometry. page 1886

Clinical Evaluation of Interictal Fluorine-18-Fluorodeoxyglucose PET in Partial Epilepsy

Interpretation replicability was investigated in 241 ¹⁸F-FDG studies performed with three different tomographs in partial epilepsy patients. page 1892

Assessment of Coronary Reserve in Man: Comparison Between Positron Emission Tomography with Oxygen-15-Water and Intracoronary Doppler Technique

A comparison was made between PET with intracoronary Doppler for coronary reserve measurements in patients with a left anterior descending artery stenosis and in patients with no coronary lesion and a coronary reserve greater than three page 1899

Comparison of Methods for Identifying

Early Methotrexate-Induced Hepatotoxicity in Patients with Rheumatoid Arthritis page 1905

Biodistribution and Dosimetry of Iodine-123-IBF: A Potent Radioligand for Imaging the D2 Dopamine Receptor

The biodistribution and radiation dosimetry of ¹²³I-IBF was documented in seven healthy humans who received approximately 100 MBq of IBF. page 1910

The Usefulness of Gallium-67-Citrate Scans in Patients with Acute Disseminated Tuberculosis and Comparison with Chest X-rays

Sixteen patients diagnosed with acute disseminated tuberculosis underwent ⁶⁷Ga-citrate scans and chest x-rays. page 1918

Optimized Diagnostic Strategy for Neuroblastoma in Opsoclonus-Myoclonus

In an attempt to determine the best screening method for detection of occult neuroblastomas in patients with infantile myoclonic encephalopathy, records of all neuroblastoma patients from 1983 to 1991 were reviewed. page 1922

Assessment of the Efficacy of Iodine-131 for Thyroid Ablation

Four months after surgery 44 patients underwent whole-body scans using 185 Mbq ¹³¹I five to six weeks after withdrawal of L-thyroxine. page 1927

Detection of Postural Cerebral Hypoperfusion with Technetium-99m-HMPAO Brain SPECT in Patients with Cerebrovascular Disease

SPECT imaging with ^{99m}Tc-HMPAO, with the tracer injected immediately after the patient arose from a supine position, was used to evaluate 19 patients with cerebrovascular disease. page 1931

Re-evaluation of Amino Acid PET Studies: Can the Protein Synthesis Rates in Brain and Tumor Tissues Be Measured In Vivo?

Tissue uptake and protein incorporation of ³H-Met, ¹⁴C-Leu and ¹⁸F-Tyr were investigated in mice bearing the FM3A

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Carbon-11 Forskolin: A Ligand for Visualization of the Adenylate Cyclase-Related Second Messenger System

To visualize the adenylate cyclase-related second messenger system, ¹¹C-forskolin and several of its analogs were synthesized by acetylation of the respective deacetyl-precursors.
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In Vitro Uptake of Technetium-99m-Teboroxime in Carcinoma Cell Lines and Normal Cells: Comparison with Technetium-99m-Sestamibi and Thallium-201

The uptake of three tracers in cultured normal cells and carcinoma cell lines were compared to define their possible use for tumor evaluation in vivo.
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Labeling of Monoclonal Antibodies with Rhenium-186 Using the MAG3 Chelate for Radioimmunotherapy of Cancer: A Technical Protocol

A detailed technical protocol for reproducible and aseptical production of stable ¹⁸⁶Re monoclonal antibody conjugates.
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Technetium-99m-Labeled Hydrazino Nicotinamide Derivatized Chemotactic Peptide Analogs for Imaging Focal Sites of Bacterial Infection

Four hydrazino nicotinamide derivatized chemotactic peptide analogs were synthesized and evaluated for in vitro bioactivity and receptor binding.
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Localization of Indium-111-Immunoglobulin G, Technetium-99m-Immunoglobulin G and Indium-111-Labeled White Blood Cells at Sites of Acute Bacterial Infection in Rabbits

The biodistribution and infection imaging characteristics of ¹¹¹In-DTPA-IgG, ^{99m}Tc-hydrazino nicotinamide-IgG and ¹¹¹In-WBCs were compared in rabbits infected with *E. coli* bacteria.
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Lobar Primary Pulmonary Lymphoma: Iodine-123-Iodoamphetamine and Thallium-201-Chloride Scintigraphic Findings

The authors report on a patient who had a so-called lobar consolidation on

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Cerebral Vasodilatory Capacity Mapping Using Technetium-99m-DTPA-HSA SPECT and Acetazolamide in Moyamoya Disease

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The authors report a case of extra-osseous metastatic abdominal chondroblastic osteosarcoma presenting as intestinal obstruction. page 1990

Pancoast Tumor as a Cause of Reflex Sympathetic Dystrophy

An unusual case of reflex sympathetic dystrophy with characteristic scintigraphic findings in a patient with apical pulmonary neoplasm is described
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Quantitated Perfusion Imaging Assessing Acquired Discrete Peripheral Pulmonary Artery Stenosis

The case of an 8-yr-old boy evaluated for anastomotic stenosis of the right pulmonary artery after surgical repair of hemitruncus at 6 wk of age is presented. page 1996

Cardiac Phantom Evaluation of Simultaneously Acquired Dual-Isotope Rest Thallium-201/Stress Technetium-99m SPECT Imaging

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Automated Iterative Three-Dimensional Registration of Positron Emission Tomography Images

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Principal Axes and Surface Fitting Methods for Three-Dimensional Image Registration

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Chromatographic Identification in Serum of Endogenously Radioiodinated Thyroid Hormones After Iodine-131 Whole-Body Scintigraphy in the Follow-up of Patients with Differentiated Thyroid Carcinoma

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A Refined Method for Quantification of Myocardial Oxygen Consumption Rate Using Mean Transit Time with Carbon-11-Acetate and Dynamic PET

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Quantitative Brain SPECT in Alzheimer's Disease and Normal Aging

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