Octreotide Scintigraphy for the Detection of Paragangliomas

The results of 111In-octreotide scintigraphy of 34 patients referred for either known paragangliomas or suspected paraganglioma were compared with outcomes of other imaging techniques used in the diagnosis or follow-up of these patients. page 873

Characterization of the Reinjection Thallium Image

Stress and reinjection data from 204 consecutive patients undergoing 99mTc cardiac stress tests and redistribution data from an additional 63 patients were analyzed in order to characterize the reinjected thallium image. page 879

Imaging Tumor Hypoxia and Tumor Perfusion

Perfusion and oxygenation status of 27 tumors in 22 patients was measured using 99mTc-hexamethylpropyleneamine oxime and 123I-iodoazomycin arabinoside.

Value of Dobutamine Technetium-99m-Sestamibi SPECT in the Detection of Coronary Artery Disease Compared with Coronary Angiography

Twenty-seven patients undergoing coronary angiography were subjected to two separate injections of 99mTc-sestamibi: one under control situations, the other after reaching the peak dobutamine infusion rate.

Editorial: High Technology Squared: You Saw It Here

Plasma D-Dimer: A Useful Tool for Evaluating Suspected Pulmonary Embolus

Sixty-four patients referred for lung scanning were prospectively studied for pulmonary embolus by obtaining plasma D-dimer latex agglutination assays at the time of the scan.

SPECT and Planar Brain Imaging in Crack Abuse: Iodine-123-Iodoamphetamine Uptake and Localization

Cerebral blood flow alterations in crack abusers were determined by dynamic planar and SPECT evaluation of the uptake, distribution and clearance of 123I-IMP in the brains of controls and asymptomatic crack users.

Dosimetry of Rhenium-186-Labeled Monoclonal Antibodies: Methods, Prediction from Technetium-99m-Labeled Antibodies and Results of Phase I Trials

The authors estimated absorbed dose to normal organs and tumors in 46 patients of two different 186Re-labeled immunoconjugates, intact NR-LU-10 antibody and the Fab subunit fragment of NR-CO-02.

Characterization of Iodovinylmisonidazole as a Marker for Myocardial Hypoxia

The binding of IVM was characterized in ischemic canine myocardium in vivo and compared to its deposition to myocardial blood flow measured by radiolabeled microspheres.

Editorial: Is Nuclear Medicine Viable and Can It Measure Viability?

Myocardial Extraction of Technetium-99m-[2-(1-Methoxybutyl)] Isonitrile] in the Isolated Rabbit Heart: A Myocardial Perfusion Agent

The potential of the compound 99mTc-MbI for the scintigraphic imaging of coronary flow was evaluated in a blood-perfused isolated rabbit heart model.

Radioiodinated 2'-Iododiazepam: A Potential Imaging Agent for SPECT Investigations of Benzodiazepine Receptors

A diazepam derivative iodinated at the 2' position was synthesized and its in vitro receptor binding affinity and regional cerebral distribution evaluated in mice.

Annotations
Evaluation of Indium-111 and Yttrium-90-Labeled Linker Immunonoconjugates in Nude Mice and Dogs

In subcutaneous implanted human tumor cells, the biodistribution of labile linker immunonoconjugates and stable linker immunonoconjugates were evaluated and compared. page 938

Site-Specific/Stable Radioiodination of 1,2-Pal-3-IPPA: An Agent for the Potential Clinical Evaluation of Pancreatic Insufficiency by Urine Analysis

A site-specific triglyceride analogue containing the radioiodinated IPPA moiety attached to the 3 (beta) position of the triglyceride was synthesized and its urinary excretion of radioactivity levels and kinetics in rats measured page 946

Demonstration of Unilateral Sialoadenitis on Postradiotherapy Gallium-67-Citrate Imaging

Intense, asymmetric uptake of 67Ga-citrate in the right parotid and submandibular glands was observed in a patient who had undergone radiotherapy for Hodgkin's disease within the past year page 953

The Unsuspected Complications of Bacterial Endocarditis Imaged by Gallium-67 Scanning

Moderate pericardial uptake and mildly increased activity in the vicinity of the aortic root and right atrium indicated pericarditis and sinus of valsalva abcess, which were confirmed at surgery page 955

Successful Gallium-67 Imaging of North American Pulmonary Blastomycosis

A case of pulmonary blastomycosis in a previously healthy 41-yr-old male was successfully imaged with 67Ga. page 958

Intraosseous Meningioma Appearance on Bone Scintigraphy over Five Years

In a patient with a history of breast carcinoma, an intraosseous meningioma progressively enlarged over a period of five years to three times its original size page 961

Verification of a Varying Threshold Edge Detection SPECT Technique of Spleen Volume: A Comparison with Computed Tomography Volumes

To evaluate the accuracy of measuring spleen volume with SPECT and the varying threshold value method, volumes obtained from SPECT studies of 20 patients were compared with those obtained from abdominal computed tomography page 963

An Automated Analysis Program for the Evaluation of Cardiac PET Studies: Initial Results in the Detection and Localization of Coronary Artery Disease Using Nitrogen-13-Ammonia

To reduce interobserver variability, the authors offer an automated analysis method for the three-dimensional definition of myocardial activity and evaluate the method in 52 patients page 968

Editorial: What Should We Expect from Cardiac PET? page 978

Quantification of Myocardial Muscarinic Receptors with PET in Humans

Noninvasive quantification of muscarinic receptors using PET, a mathematical model, multi-injection protocols and 13C-labeled MQNB was evaluated in six normal subjects page 981

Phantom Study of Breast Tissue Attenuation in Myocardial Imaging

The attenuation distortion of myocardial polar maps was measured using a thorax phantom with a cardiac insert and added breast tissue page 992

Bone Imaging with Energy-Weighted Acquisition

The effect of energy-weighted acquisition for lesion detection on bone scans was compared with standard acquisition protocols in 97 patients by simultaneously acquiring bone scans using both protocols page 997


Forty-four brain blood flow determinations were made in 11 volunteers using arterial radioactivity measurements based both on the lung probe and continuous sampling from a radial artery page 1000

Editorial: Practical Procedures and Pharmacological Applications of Quantitative PET page 1006

Clinicopathologic Conferences: SPECT and MRI in Posterior Cerebral Artery Infarction and Related Visual Field Defects page 1009

Continuing Education: Approaches to Identify and Characterize Hypertrophic Myocardium page 1013

Editorial: Immunoadsorption: An Enhancement Strategy for Radioimmunotherapy page 1020