2029  **Technetium-99m-HMPAO Leukocytes in Inflammations**

2043  **Tyrosine Transport**

2126  **Comparison of Agents for Inflammatory Foci**

2152  **Myocardial FDG Uptake in Fasting Condition**

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Fast Diagnosis of Abdominal Infections and Inflammations with Technetium-99m-HMPAO Labeled Leukocytes

The diagnostic value of early 99mTc-HMPAO leukocyte images was studied in 80 patients suspected of abdominal infection or inflammation.

Patient with Suspected Pulmonary Emboli and an Intermediate Probability Lung Scan

Technetium-99m-MAG3 Versus Iodine-123-OIH: Renal Clearance and Distribution Volume as Measured by a Constant Infusion Technique

Clearance and distribution of MAG3 and OIH were determined separately in six normal male volunteers using the constant infusion technique to validate single injection clearance techniques and, subsequently, the normal values for these parameters.

Noninvasive Delineation of the Effects of Aging on Myocardial Perfusion

To gain greater understanding of the effects of age on myocardial perfusion, 11 young adults (25±4 yr) and 15 older adults (55±9 yr) without history or symptoms of cardiovascular disease were studied using H218O and PET under resting conditions and following administration of intravenous dipyridamole.

A Decision Analysis Approach to the Treatment of Patients with Suspected Pulmonary Emboli and an Intermediate Probability Lung Scan

Using medical decision analysis, four management strategies for patients with suspected pulmonary emboli have been examined in terms of mortality and morbidity up to 6 mo post-presentation.

Improved Detection of Small Cavernous Hemangiomas of the Liver with High-Resolution Three-Headed SPECT

Technetium-99m-red blood cell scintigraphy was undertaken in 19 patients for the diagnosis of cavernous hemangiomas using a new three-headed SPECT system.

A Comparison of Scintigraphy, Thermography, Ultrasound and Phlebography in the Grading of Varicocele

Two hundred and sixty-three patients were investigated with various modality combinations. The degree of abnormality for each modality was graded semi-quantitatively and the results compared.

A Comparison of Scintigraphy, Thermography, Ultrasound and Phlebography in the Grading of Varicocele

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Follow-up Study of Postoperative Patients with Thyroid Cancer by Thallium-201 Scintigraphy and Serum Thyroglobulin Measurement

Following thallium-201 scintigraphy in 149 postoperative patients with thyroid cancer, serum thyroglobulin concentration was concomitantly evaluated in 86 of these patients.

An Evaluation of Forearm Bone Mineral Measurement with Dual-Energy X-Ray Absorptiometry

In order to determine whether DEXA could be useful for bone mineral analysis of the forearm, its accuracy, precision and measurement performance to single-photon
absorptiometry were compared in 30 adult patients and volunteers.  

Safety of Dipyridamole-Thallium Imaging in High Risk Patients with Known or Suspected Coronary Artery Disease  
The effects of oral dipyridamole suspension were studied in 400 consecutive patients to determine if certain subsets of patients were at greater risk of suffering major complications.  

Editorial: Dipyridamole-Thallium Imaging: How Safe Is It? When Should It Be Used?  

In a rat tumor model, metabolic tracers were used to assess the feasibility of monitoring tumor radiation therapy using a quadruple tracer technique.  

Editorial: Monitoring Tumor Radiotherapy  

The Localization of Indium-111-Leukocytes, Gallium-67-Polyclonal IgG and Other Radioactive Agents in Focal Inflammatory Lesions  
Eight different agents were compared with 111In-oxine-labeled leukocytes in an acute soft-tissue E. coli abscess and an acute arthritic lesion in 24 dogs.  

Indium-111-Labeled Low-Density Lipoprotein Binds with Higher Affinity to the Human Liver as Compared to Iodine-123-Labeled Lipoprotein  
The interaction of 111In-LDL and 123I-LDL with human liver-plasma membranes were investigated and compared. The results suggest that 111In-labeled lipoproteins might be a better ligand for receptor binding studies.  

Neutron-Activated Holmium-166 Polyester Microspheres: A Potential Agent for the Internal Radiation Therapy of Hepatic Tumors  
Biodegradable PLA microspheres containing stable 166Ho-ACAc were reproducibly prepared by the solvent evaporation technique and later irradiated in a high neutron flux to produce therapeutic amounts of 166Ho.  

Clinicopathologic Conferences: Lymphoscintigraphic Abnormalities in Venous Thrombosis  

Benefit of Tomography in the Scintigraphic Localization of Cerebrospinal Fluid Leak  
A CSF leak was demonstrated in a 42-yr-old female by tomography after planar acquisition failed to localize it.  

Simple Quantification of Regional Myocardial Uptake of Fluorine-18-Deoxyglucose in Fasting Condition  
A simple FDG uptake index was used to compare fractional FDG uptake in 21 patients who underwent serial arterial blood sampling and to measure the normal range in each myocardial segment in the study of 10 normal, fasting subjects.  

Development and Clinical Application of an Automated Portable Tungsten-178/Tantalum-178 Generator  
An automated, portable generator system was developed for use in first-pass radionuclide angiography studies with a multiwire gamma camera.  

Rapid Preparation and Quality Control Method for Technetium-99m-2-Methoxy Isobutyl Isonitrile  
A microwave oven heating method and a new, expedient quality control system facilitate the rapid preparation of sestamibi.  

Myocardial Tissue Fraction—Correction for Partial Volume Effects and Measure of Tissue Viability  
Two independent methods for correcting systematic underestimation in measurements of myocardial tracer concentration due to wall motion and transmural wall thickness in cardiac PET studies were compared in patients.  

Left Anterior Oblique and Geometric Mean Attenuation Correction of Gastric Emptying  
Two methods of acquiring gastric emptying data (left anterior oblique imaging and the geometric mean of anterior and posterior counts) were compared in 20 patients using a power exponential curve fit to calculate a lag phase, an equilibrium emptying rate, and a half-time for gastric emptying.  

Continuing Education: Evaluation of the Thyroid Nodule  