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The Official Publication of
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Mucociliary Clearance and Transport in Bronchiectasis: Global and Regional Assessment

Global and regional mucociliary clearance and transport were studied in 20 patients with bronchiectasis. Regional abnormalities in mucociliary transport seemed to be responsible for the development of infections and hemoptysis. Page 543

Technetium-99m-MDP Transport Mucoidary

Technetium-99m-MDP with tricuspid blockage in patients appeared evaluated. Difficulty in clearance with clearances in regional assessment was proven in 20 patients. Thirty-eight patients were evaluated. Thirty-eight patients with surgically proven sarcomas were evaluated. Thallium studies were superior to 99mTc-MDP bone scans and gallium studies in predicting tumor response to chemotherapy. The authors conclude that 203Tl is a sensitive radiopharmaceutical for detection of bone sarcoma and appears to be an accurate test for evaluating response to specific therapeutic regimens. Page 567

Indium-111-Leukocyte/Technetium-99m-MDP Bone and Magnetic Resonance Imaging: Difficulty of Diagnosing Osteomyelitis in Patients with Neuropathic Osteoarthropathy

Fourteen patients with clinical and/or radiographic evidence of neuropathic osteoarthropathy were evaluated with 111In-WBC and 99mTc-MDP bone imaging for suspected osteomyelitis. Both techniques appeared effective for detecting osteomyelitis. However, findings at sites of rapidly progressing, noninfected, neuropathic osteoarthropathy may be indistinguishable from osteomyelitis. Page 549

Effects of Beta-Adrenergic Blockade in Acute Myocardial Infarction: Evaluation by Radionuclide Ventriculography

These studies indicate that left ventricular contractility is reduced in patients with acute myocardial infarction and that beta-adrenergic blockade further decreases ventricular performance. Page 557


Thirty-eight patients with surgically proven sarcomas were evaluated. Thallium studies were superior to 99mTc-MDP bone scans and gallium

In Vivo SPECT Imaging of CNS D-2 Dopamine Receptors: Initial Studies with Iodine-123-IBZM in Humans

Preliminary imaging studies showed specific localization in the basal ganglia of the brain. At 2 hr after an injection, brain uptake was 3.72% of injected dose, diminishing to 0.7% after 20 hr. Dosimetry and pharmacology data suggest that the agent is safe for use in humans. Page 573

Quantitative Assessment of Blood Flow in Pediatric Recipients of Renal Transplants

A renal blood flow quantification technique was applied to pediatric data. Very low blood flow values within 24 hr of transplantation may have prognostic significance. Patients requiring transplant nephrectomy had lower RBF/CO values than children who retained their allograft. Page 580

Clinical and Clinicopathologic Effects of Samarium-153-EDTMP Administered Intravenously to Normal Beagle Dogs

Doses calculated to irradiate an acute bone lesion arising from cancer metastasis ranging from palliative to therapeutic were administered to dogs to determine the degree of acute bone marrow and vital organ injury sustained. All hematologic parameters returned to normal within six weeks of last injection, indicating potential for the compound as a therapeutic radiopharmaceutical. Page 586

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Continuous-Slice PENN-PET: A Positron Tomograph with Volume Imaging Capability

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