The Influence of Plasma Glucose Level on Fluorine-18-Fluorodeoxyglucose Uptake in Bronchial Carcinomas

Fifteen patients with bronchial carcinomas, 12 males and 3 females, were studied using PET and FDG to assess plasma glucose levels on the dose absorption ratio of FDG uptake in bronchial carcinomas. page 355

Measurement of Regional Cerebral Glucose Utilization with Fluorine-18-FDG and PET in Heterogeneous Tissues: Theoretical Considerations and Practical Procedure

An optimal procedure for eliminating errors due to tissue heterogeneity in determination of rCMRglc was evaluated in normal subjects during experimental periods up to 120 minutes after tracer injection. page 360

The Underestimation of Segmental Defect Size in Radionuclide Lung Scanning

The authors evaluated the accuracy with which four experienced observers were able to estimate the size of 24 defects of known anatomical location using images of segmental defects in ventilation produced by a bronchoscopic technique and 82mKr. page 370

Improved Evaluation of Technetium-99m-Red Blood Cell SPECT in Hemangioma of the Liver

Planar imaging and conventional, static 99mTc-RBC SPECT presentation was compared with dynamic, three-view display of SPECT slices for 21 patients with 56 hemangiomas and 18 patients with malignant liver lesions. page 375

Prospective Study of Magnetic Resonance Imaging and SPECT Bone Scans in Renal Allograft Recipients: Evidence for a Self-Limited Subclinical Abnormality of the Hip

Serial bone scans were obtained from 72 patients over periods as long as 24 months after transplantation to analyze whether subclinical imaging abnormalities represent mild avascular necrosis. page 381

Influence of Dose Selection on Absorbed Dose Profiles in Radioliodine Treatment of Diffuse Toxic Goiters in Patients Receiving or Not Receiving Carbimazole

After a retrospective review of the records of 224 patients with diffuse goiters treated with radioiodine, half also receiving carbimazole, the dosimetric profiles of nine methods of dose selection were analyzed by simulation. page 387

First-Pass Radionuclide Angiographic Studies of Left Ventricular Function with Technetium-99m-Teboroxime, Technetium-99m-Sestamibi and Technetium-99m-DTPA

A comparison is presented of imaging results from age- and gender-matched patients with clinically normal left ventricular function who underwent resting first-pass studies with BATO, MIBI and DTPA. page 394

Clinical Outcome of Cardiac Patients with Negative Thallium-201 SPECT and Positive Rubidium-82 PET Myocardial Perfusion Imaging

The effect of correct image interpretation of coronary artery disease on the final management of patients and a comparison of that effect with patient management undertaken when a negative image was seen as the end point was evaluated in 27 patients identified as true-positive with 82Rb and false-negative with 201Tl. page 400

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