

Judy Buchanan

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717 Perfusion and Flow Velocity

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723 rCBF Improvement in Cocaine Users

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737 Immediate Thallium-201 Reinjection

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762 Normalized Slope Ratio in Diuretic Renograms

---

773 FDG, Methionine and Thymidine to Monitor  
Adenocarcinoma Cell Line

---

821 Carbon-14-Urea Breath Test Dosimetry

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*Full Table of Contents Begins on Page 4A, Annotations on Pages 7A-8A*



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**Concordance of Nutritive Myocardial Perfusion Reserve and Flow Velocity Reserve in Conductance Vessels in Patients with Chest Pain with Angiographically Normal Coronary Arteries**

Nutritive perfusion reserve assessed with PET was compared with coronary flow reserve measured by Doppler catheter in nine patients with chest pain and angiographically normal coronary arteries ..... *page 717*

**Regional Cerebral Blood Flow Improves with Treatment in Chronic Cocaine Polydrug Users**

Ten cocaine-dependent polydrug users were studied with <sup>99m</sup>Tc-HMPAO SPECT on three occasions to determine if abstinence from drug use improves cerebral perfusion ..... *page 723*

**Role of Quantitative Planar Thallium-201 Imaging for Determining Viability in Patients with Acute Myocardial Infarction and a Totally Occluded Infarct Artery**

Fifty-seven patients with a recent infarction and an occluded infarct-related artery were evaluated to test the hypothesis that the amount of <sup>201</sup>Tl on delayed planar images correlates with the extent of viable myocardium after acute myocardial infarction ... *page 728*

**Immediate Thallium-201 Reinjection Following Stress Imaging: A Time-Saving Approach for Detection of Myocardial Viability**

The results of immediate <sup>201</sup>Tl reinjection were compared with 3-hr redistribution imaging in 120 consecutive patients evaluated for myocardial ischemia ..... *page 737*

**Editorial: Thallium Reinjection Imaging: The Search for an Optimal Protocol..... *page 743***

**Effects of Alterations in Systolic Pressure on Radionuclide Measures of Left Ventricular Filling Dynamics**

Micromanometer left ventricular pressures and computer-assisted forward-gated radionuclide angiograms were

acquired simultaneously in 15 normals and 17 patients with nonischemic heart disease ..... *page 747*

**Comparison of Technetium-99m-ECD to Xenon-133 SPECT in Normal Controls and in Patients with Mild to Moderate Regional Cerebral Blood Flow Abnormalities**

The uptake and distribution of <sup>99m</sup>Tc-ECD was compared to rCBF measured by <sup>133</sup>Xe SPECT in subjects with mild to moderate flow abnormalities and in normal volunteers..... *page 754*

**Normalized Clearance to Uptake Slope Ratio: A Method to Minimize False-Positive Diuretic Renograms**

The normalized slope ratio is introduced and used to evaluate 94 kidneys which are then compared to those of the standard T<sub>1/2</sub>, clearance slope and percent retention ..... *page 762*

**Radiation Dose to Positron Emission Tomography Technologists During Quantitative Versus Qualitative Studies**

PET technologists were monitored during qualitative and quantitative studies, and during other specific tasks, to determine the average radiation dose received ..... *page 769*

**In Vitro Assessment of 2-Fluoro-2-Deoxy-D-Glucose, L-Methionine and Thymidine as Agents to Monitor the Early Response of a Human Adenocarcinoma Cell Line to Radiotherapy**

At varying times following 30 Gy ir radiation, the uptake and retention of three tracers, FDG, L-methionine and thymidine, were examined in a human ovarian carcinoma line ..... *page 773*

**High Accumulation of 2-Deoxy-2-Fluorine-18-Fluoro-D-Galactose in Well-Differentiated Hepatoma of Mice and Rats**

Uptake of <sup>18</sup>FDGal in well-differentiated, spontaneous hepatoma of C3H mice and well-differentiated Morris hepatoma of the buffalo rat was compared with values for poorly differentiated hepatomas and tumors other than liver cancers ..... *page 780*

**Selective Localization of a Radioiodinated Phospholipid Ether Analog in Human Tumor Xenografts**

Athymic mice were implanted with human tumors of several histologies and imaged with a radioiodinated phospholipid analog ..... *page 787*

**Changes in Local Cerebral Glucose Utilization in the Awake Rat During Acute and Chronic Administration of Ethanol**

The rate of cerebral glucose metabolism was assessed in rats 10 min after acute administration of ethanol by gavage and following 20-24 days of chronic ethanol administration ..... *page 793*

**Editorial: From the Cradle to the Grave: Alcohol and Its Effects upon the Brain..... *page 798***

**False-Positive Lymph Nodes by Radioimmunoguided Surgery: Report of a Patient and Analysis of the Problem**

The authors' experience with a patient with false-positive lymph node localization following administration of <sup>125</sup>I-labeled B72.3 Mab is reported and a suggestion is made as to the cause of the false-positive tests ..... *page 804*

**Bronchogenic Carcinoma Mimicking Metastatic Thyroid Carcinoma**

The authors report a false-positive <sup>131</sup>I scan during follow-up of a patient with papillary thyroid carcinoma which developed 24 yr after radiation therapy for Hodgkin's disease ..... *page 809*

**Indium-111-Labeled Leukocyte Scintigraphy in a Case of Cutaneous Sarcoidosis**

A 54-yr-old woman with cutaneous nodules showed accumulation of <sup>67</sup>Ga

and <sup>111</sup>In-labeled leukocytes in skin nodules, bilateral pulmonary hilar lymph nodes and the right upper mediastinum .....page 812

**Technetium-99m DMSA Uptake in Intra-abdominal Massive Deposit of Amyloid Protein**

Technetium-99m-dimercaptosuccinic acid scintigraphy was performed in two patients with pathologically confirmed primary amyloidosis. ....page 815

**Indium-111-Leukocyte Imaging in Gaucher's Disease**

Massive hepatomegaly, lack of central marrow activity and extensive lymph node uptake characterize indium-labeled mixed autologous leukocyte scintigraphy of a 29-yr-old man with Gaucher's disease and fever of unknown origin .....page 818

**Radiation Dose Estimates for the Carbon-14-Labeled Urea Breath Test**

Dose estimates for the <sup>14</sup>C-urea breath test were calculated for males and females who test positive and negative for gastric *H. pylori* infection. ....page 821

**Estimation of Left Ventricular Mass and Infarct Size from Nitrogen-13-Ammonia PET Images Based on Pathological Examination of Explanted Human Hearts**

Fourteen hearts from patients with <sup>13</sup>N-ammonia scans prior to transplantation were studied in order to develop a technique to quantify left ventricular myocardial mass and infarct size in chronic ischemic heart disease. ....page 826

**Editorial: How Can Positron Emission Tomography Help Evaluate Patients Before and After Heart Transplantation? page 834**

**Functional Mapping of Flow and Back-Diffusion Rate of N-Isopropyl-p-Iodoamphetamine in Human Brain**

Flow and back-diffusion rates of IMP in the human brain were measured by serial dynamic SPECT following intravenous bolus injections of the tracer. ....page 839

**Validation of Renal Output Efficiency as an Objective Quantitative Parameter in the Evaluation of Upper Urinary Tract Obstruction**

Eleven healthy volunteers and 34 patients suspected of upper urinary obstruction were studied with <sup>99m</sup>Tc, MAG3 and a standard protocol. Furosemide was given at 18 min and ROE was calculated in each kidney and the results correlated with the final diagnosis .....page 845

**Clinicopathologic Conferences: Scintigraphy in the Evaluation of Liver Masses: Cavernous Hepatic Hemangioma.....page 849**

**Gallium-67 Scintigraphy in Tuberculous and Nontuberculous Infectious Spondylitis .....page 853**

**Editorial: Tough Choices: Who Is to Make the Call?**

Someday soon, this physician-author believes, nonphysicians without clinical judgement or experience will make treatment decisions based on economic factors. According to the author, we have no one but ourselves to blame. ....page 860

**Editorial: Parametric Images for Quantitative Measurements of Regional Myocardial Blood Flow in Humans: A Step in the Right Direction .....page 862**