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The Official Publication of
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An Educated Man

"...Sex for the students, athletics for the alumni, and parking for the faculty."
...major concerns of US college campuses.
— Kerr

The word "educate," derived from the Latin to lead out, describes a process wherein the ignorant follow a mentor wherever she leads. In today's environment, with many competing demands vying for the mind of the student, what we teach and how we present it, is more important than ever. What is learned in this process shapes the outlook and bounds the vision of the student. The problem is compounded by the need to see beyond the desire to produce an educated man and to make it possible for the student to put bread on the table at the conclusion of his training.

In nuclear medicine, focused training in the art and science of radionuclide studies is a worthy goal. The respected clinician imager can evaluate data from all modalities to offer a realistic appraisal of the patient. Therein comes the rub. No one person can keep up with every advancement in radionuclide imaging and still claim to be an expert in the entire field of imaging. A proponent of in-depth education in one area argues that this understanding is required so that a person may advance the state of knowledge in a specified area. A proponent of the broad educational experience points to the reality of the patient care environment in which multiple imaging modalities contribute to clinical care.

In this issue of the Journal, Doctors Maynard, Wagner, Ell and Holman, all of whom have contributed to the advancement of nuclear medicine, debate how best to educate our trainees. Each of the protagonists has served as a role model, mentoring many students. The debate is healthy and timely. The crystal ball may be cloudy, but we need to plan for the practitioners of the next century, lest we arrive there like the druids with plenty of monuments to our obsession and no one there to make our case.

H. William Strauss, Editor
The Journal of Nuclear Medicine
Influence of the Blood Glucose Concentration on FDG Uptake in Cancer – A PET Study

Five patients with head and neck cancer underwent two PET studies prior to therapy, first in the fasting state and then 2-5 days later after oral glucose loading ........................................ page 1

Editorial: FG-PET in Oncology: There Is More to It Than Looking at Pictures ........................................ page 6

Fluorodeoxyglucose Imaging of Advanced Head and Neck Cancer After Chemotherapy

In 18 patients with proven cancer, PET studies with FDG were performed prior to the first chemotherapeutic cycle with cisplatin and 5-FU. A second exam after the first chemotherapeutic cycle was performed in 11 patients ........................................ page 12

Thallium Scintigraphy in the Evaluation of Mass Abnormalities of the Breast

Eighty-one female patients underwent thallium scintigraphy of the breast because of palpable breast masses. An additional 30 females with no palpable abnormalities were also studied ........................................ page 18

Ultrastructural Histology Correlates with Results of Thallium-201/Technetium-99m Parathyroid Subtraction Scintigraphy

Ninety randomly selected patients were compared for differences at the cellular level between parathyroid adenomas and/or hyperplasias detected or missed by 201T1 or 99mTc subtraction scintigraphy ........................................ page 24

Technetium-99m-1,2-bis[bis(2-Ethoxyethyl)Phosphino]Ethane: Human Biodistribution, Dosimetry and Safety of a New Myocardial Perfusion Imaging Agent

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Myocardial perfusion and metabolism were evaluated in nine patients prior to orthotopic cardiac transplantation using PET with 13NH3 and 18FDG ........................................ page 39

Renovascular Hypertension: A Perfusion Disturbance Is Described That Escaped Recognition

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The time course of myocardial uptake of 123I MIBG was studied in 26 patients, including 7 control and 6 heart transplant recipients ........................................ page 57

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The efficacy and safety of 123I-labeled CEA Mab fragments was evaluated in 62 patients with previously confirmed colorectal cancer ........................................ page 61

Quick Diagnosis of Hyperthyroidism with Semiquantitative 30-Minute Technetium-99m-Methoxy-Isobutyl-isonitrile Thyroid Uptake

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Validation of Nitrogen-13-Ammonia Tracer Kinetic Model for Quantification of Myocardial Blood Flow Using PET

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Joint Uptake and Body Distribution of a Technetium-99m-Labeled Antirat-CD4 Monoclonal Antibody in Rat Adjuvant Arthritis

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Brain Uptake of Thallium-201 from the Cerebrospinal Fluid Compartment

Autoradiographic studies of rat brain after stereotactic 201T1 injections were used to elucidate the movement of the tracer through the cerebrospinal fluid compartment and uptake by normal brain ........................................ page 99

Uptake and Biodistribution of Technetium-99m-MDP During Rat
Tibial Bone Repair

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