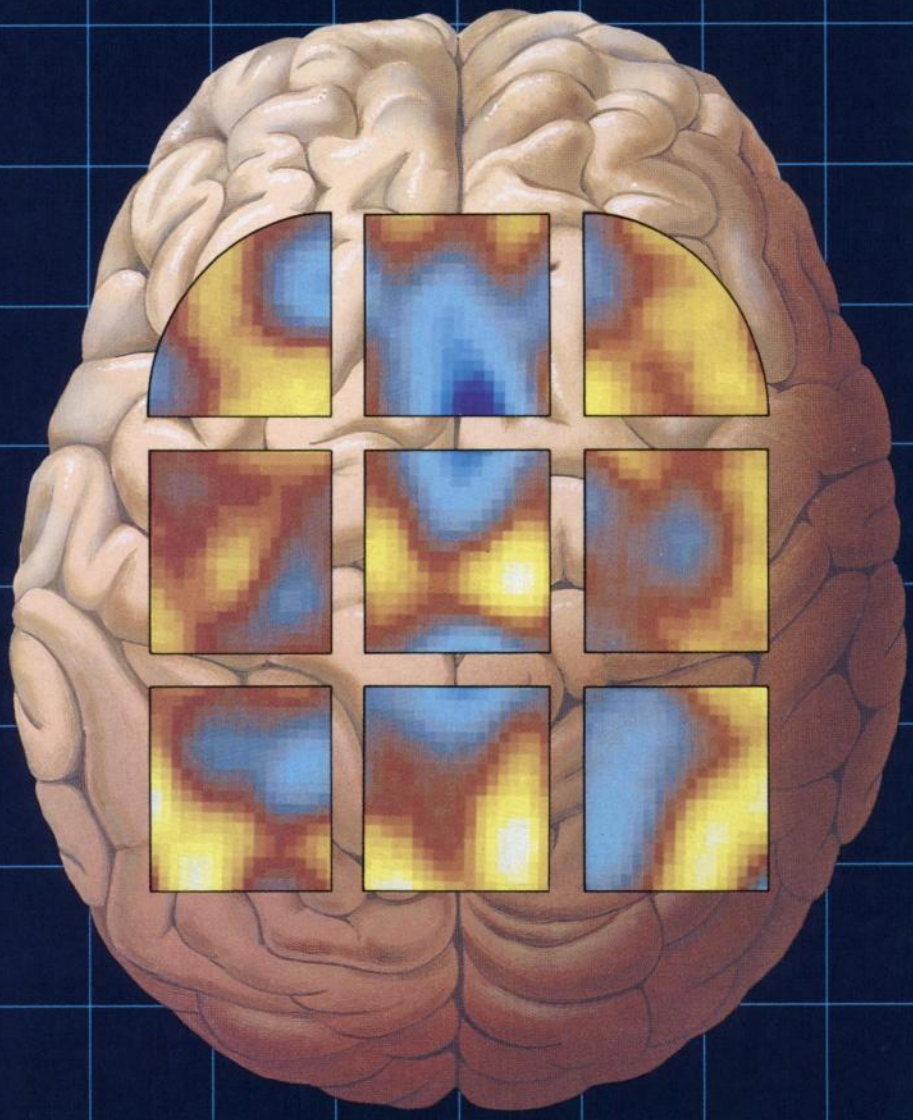
In the evaluation of stroke

SPECTamine®

Iofetamine HCl I 123 Injection

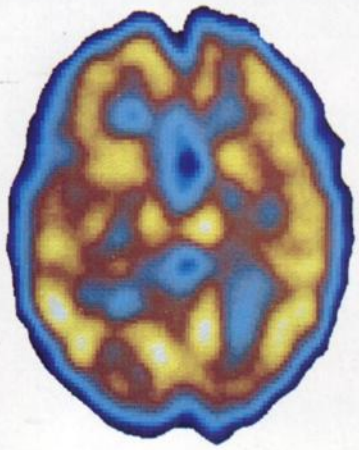
opens a window into the living brain



Please see adjacent page for brief summary of prescribing information.

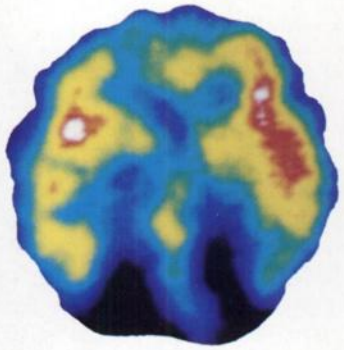
SPECTamine®
Iofetamine HCl I 123 Injection

- A neurotransmitter analog crosses the intact blood-brain barrier
- Concentrates in metabolically active brain cells—predominantly in the gray matter
- Provides PET-like functional brain images at a fraction of the cost



Normal brain (top left) displays relatively symmetric SPECTamine uptake by metabolically active neurons.

SPECTamine study (bottom left) demonstrates bilaterally posterior cerebral artery infarction, confirming diagnosis.



Images courtesy of New England Deaconess Hospital, Boston, Mass. Images acquired with SME 810 dedicated head unit, Strichman Medical Equipment, Inc., Medfield, Mass.

For more information contact your Medi-Physics Territory Manager, Roche Professional Service Center or call 1-800-451-7732.

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Medi-Physics, Inc.
140 East Ridgewood Avenue
Paramus, NJ 07652

SPECTamine®
Iofetamine HCl I 123 Injection

For complete product information, consult package insert, a brief summary of which follows:

DIAGNOSTIC – FOR INTRAVENOUS USE

DESCRIPTION: SPECTAMINE®(Iofetamine HCl I 123 Injection) is supplied as a sterile, apyrogenic, aqueous, isotonic sodium chloride solution for intravenous administration. Each milliliter of the solution contains 37 megabecquerels (1 millicurie) of iofetamine HCl I 123 at calibration time, 0.15 milligram iofetamine HCl, 0.017 millimole sodium phosphate, and 8.0 milligrams sodium chloride for isotonicity. The pH is adjusted to 4.5-6.0 with sodium hydroxide or hydrochloric acid. SPECTAMINE contains no bacteriostatic preservative and is packaged in single dose vials. The radionuclidic composition at calibration time is not less than 98.0 percent I 123, not more than 1.9 percent I 125, and not more than 0.1 percent all others (I 126 and Te 121). The radionuclidic composition at the 12-hour expiration time is not less than 96.3 percent I 123, not more than 3.5 percent I 125, and not more than 0.2 percent all others.

INDICATIONS AND USAGE: SPECTAMINE (Iofetamine HCl I 123 Injection) is recommended for use as a lipid-soluble brain-imaging agent. It has been shown to be useful in the evaluation of nonlacunar stroke especially when used within 96 hours of onset of focal neurological deficit. The rates of agreement between abnormal images and the neurological examination suggestive of ischemic cerebrovascular insufficiency appear to increase with the severity of symptoms. Its usefulness for the measurement of cerebral blood flow has not been established.

CONTRAINDICATIONS: None known.

WARNINGS: SPECTAMINE (Iofetamine HCl I 123 Injection) should not be administered to individuals with known hypersensitivity to sympathomimetic amines or to those individuals taking monoamine oxidase inhibitors.

PRECAUTIONS:

General

Some primate (Macaca fascicularis) studies have shown marked eye uptake of iofetamine HCl I 123. Localization has not been studied in the isolated human eye although in vivo images suggest the concentration of iofetamine HCl I 123 is below the limit of detection. Individual human variations in pharmacokinetics of this drug and the long-term effect on the eye have not been elucidated.

The contents of the vial are radioactive. Adequate shielding of the preparation must be maintained at all times.

Do not use after the expiration time and date (12 hours after calibration time) stated on the label.

Potassium Iodide Oral Solution should be administered before the examination to minimize thyroid uptake of iodine 123.

The prescribed iofetamine HCl I 123 dose should be administered as soon as practical from the time of receipt of the product (i.e., as close to calibration time or before, if possible), in order to minimize the fraction of radiation exposure due to relative increase of radionuclidic contaminants with time.

To minimize radiation dose to the bladder, the patient should be encouraged to drink fluids and void frequently.

SPECTAMINE, as well as other radioactive drugs, must be handled with care. Appropriate safety measures should be used to minimize radiation exposure to clinical personnel. Care should also be taken to minimize radiation exposure to the patient consistent with proper patient management.

Radiopharmaceuticals should be used only by physicians who are qualified by training and experience in the safe use and handling of radionuclides, and whose experience and training have been approved by the appropriate government agency authorized to license the use of radionuclides.

Drug Interactions

There has been a single report of elevated diastolic hypertension (about 30 mm Hg) occurring 18 hours after administration of SPECTAMINE in a patient maintained on therapeutic doses of valproic acid.

Concurrent use of monoamine oxidase (MAO) inhibitors and compounds containing the amphetamine structure has been known to result in hypertensive crisis. Caution, therefore, should be exercised when administering SPECTAMINE (Iofetamine HCl I 123 Injection) to individuals taking medications known to potentiate the effects of sympathomimetic amines. It is recommended that SPECTAMINE not be administered during or within 14 days following administration of MAO inhibitors.

Sympathomimetic amines may affect the biodistribution of SPECTAMINE and, thus, may influence the image quality and diagnostic utility of the image.

Carcinogenesis, Mutagenesis, Impairment of Fertility

No long-term animal studies have been performed to evaluate carcinogenic potential, mutagenic potential or effects on fertility in male or female animals. The Ames test was negative for mutagenic effects.

Pregnancy Category C

Animal reproduction studies have not been conducted with SPECTAMINE. It is also not known whether SPECTAMINE can cause fetal harm when administered to a man or a pregnant woman or can affect reproduction capacity. SPECTAMINE should be given to a pregnant woman only if clearly needed.

Ideally, examinations using radiopharmaceuticals, especially those elective in nature, in women of childbearing capability, should be performed during the first few (approximately ten) days following the onset of menses.

Nursing Mothers

Since Iodine I 123 is excreted in human milk, formula feeding should be substituted for breast feeding if the agent must be administered to the mother during lactation.

Pediatric Use

Safety and effectiveness in children have not been established.

ADVERSE REACTIONS: In a clinical study in 93 patients with sudden onset of focal neurological deficit, e.g., cerebral infarction, 7 patients died within 2 to 55 days after administration. The deaths were considered to be a result of the disease state. Although there was no concurrent control group, statistics from historical controls support this evaluation.

There is evidence suggesting that the administration of 1 to 2 milligrams of iofetamine HCl, the carrier in SPECTAMINE, may increase systolic blood pressure by about 10 mm Hg. In a patient with a history of hypertension, there has been a single report of sudden onset of hypertension and dizziness with transient chest tightness which occurred 5-10 minutes after administration of SPECTAMINE. One case of transient unilateral hearing loss also was reported several hours after the use of SPECTAMINE in a patient with a coincidental upper respiratory infection.

As with all organic-iodine-containing compounds, the possibility of allergic reactions must be considered.

HOW SUPPLIED: SPECTAMINE is supplied in nominal 3.5 ml vials as a sterile, apyrogenic, aqueous, isotonic sodium chloride solution for intravenous injection. Each milliliter contains 37 megabecquerels (1 mCi) of iofetamine HCl I 123 at calibration time.

It is available in individual vials containing 111 megabecquerels (3 mCi) of iofetamine HCl I 123 at calibration time in a volume of 3 ml.

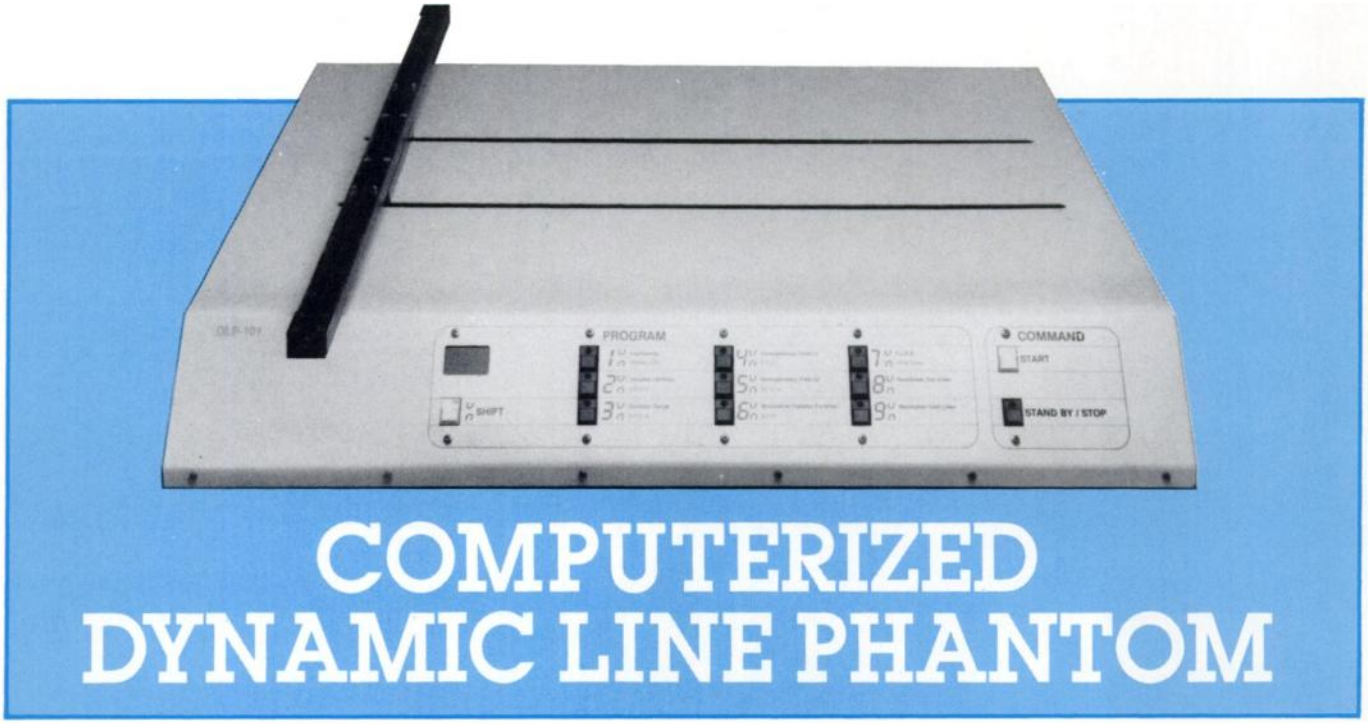
Single use vials are packaged in individual lead shields with plastic outer container.

THIS PRODUCT INFORMATION ISSUED AUGUST 1988

Medi-Physics, Inc.
140 East Ridgewood Avenue, Paramus, NJ 07652

Circle Reader Service No. 1

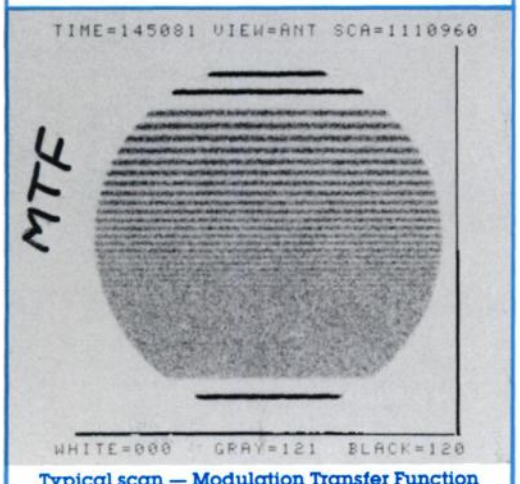
ONE Phantom...SIXTEEN Tests!



COMPUTERIZED DYNAMIC LINE PHANTOM

A Breakthrough in Gamma Camera Quality Assurance!

- **Makes current phantom/flood QA testing of gamma camera systems obsolete!**
- **Eliminates the need for most conventional phantoms!**
- **Greatly reduces exposure to personnel during flood QA testing!**



Typical scan — Modulation Transfer Function

Programmed to Perform Sixteen Quality Assurance Tests, Including...

- ✓ **Flood Field**
- ✓ **Variable Contrast**
- ✓ **Dynamic Range**
- ✓ **Modulation Transfer Function**
- ✓ **Resolution**
- ✓ **Linearity**

The Dynamic Line Phantom is the only instrument that will provide a true and accurate flood uniformity test for gamma cameras...a necessity in SPECT imaging!

This new phantom uses the principle of a thin line source transversing the camera. Using microprocessor technology, it can simulate a number of different phantoms. It can provide direct measurement of the Modulation Transfer Function, can evaluate collimator operation, and check the complete imaging system — camera, interface, processing, display.

Conventional phantoms such as flood, quadrant bar, PLES, orthogonal hole, flood sources, Hine-Duley, BRH test patterns, and more, have been incorporated into the Dynamic Line Phantom which is preprogrammed to perform 16 quality assurance tests.

For more details, request Bulletin 436-35

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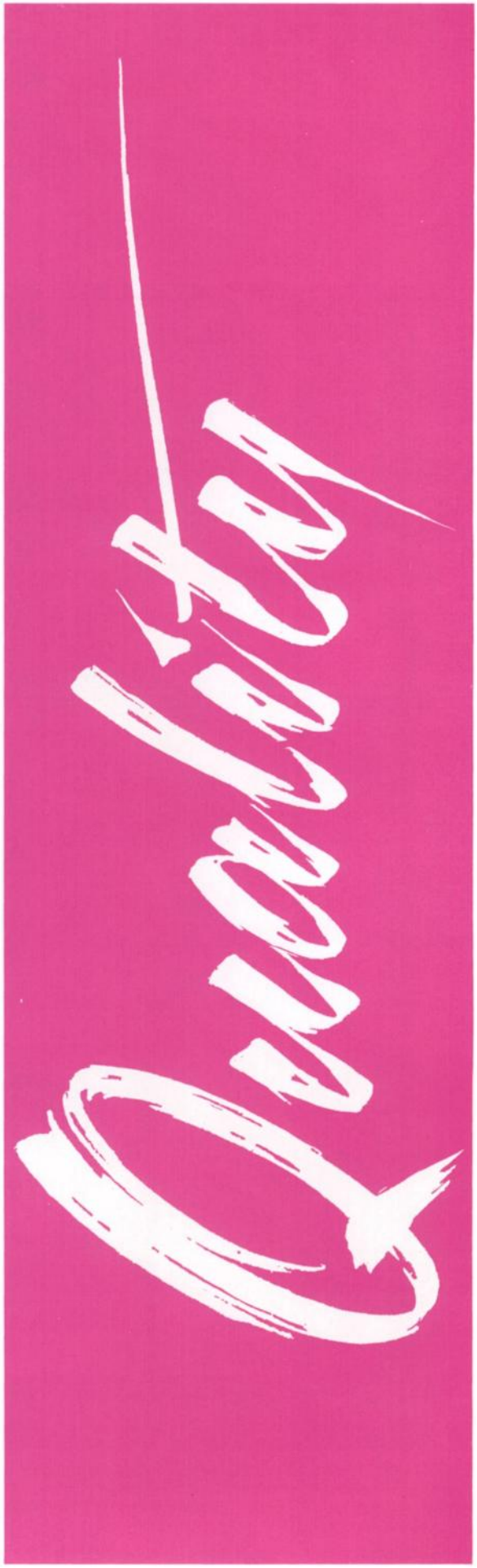

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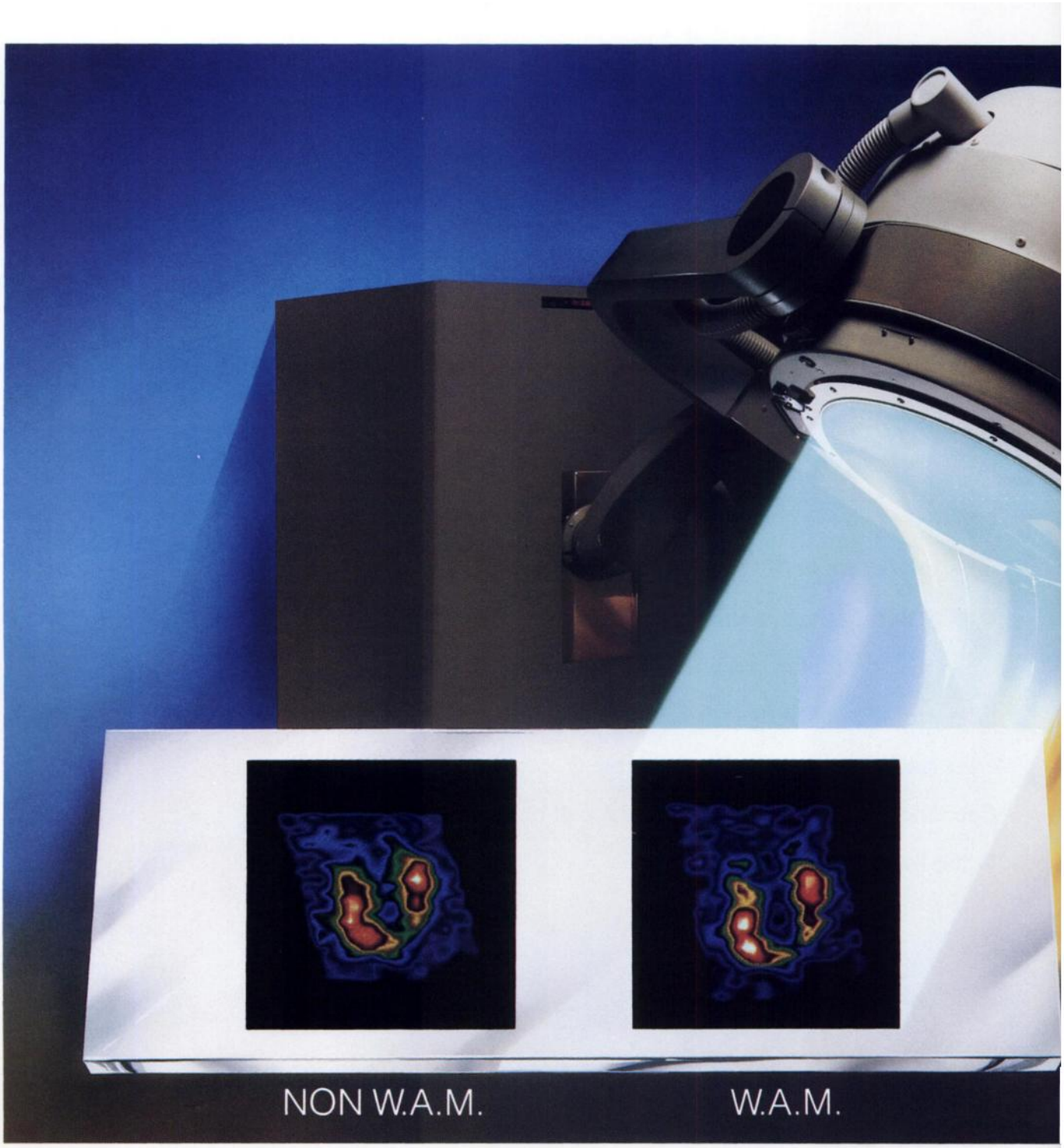
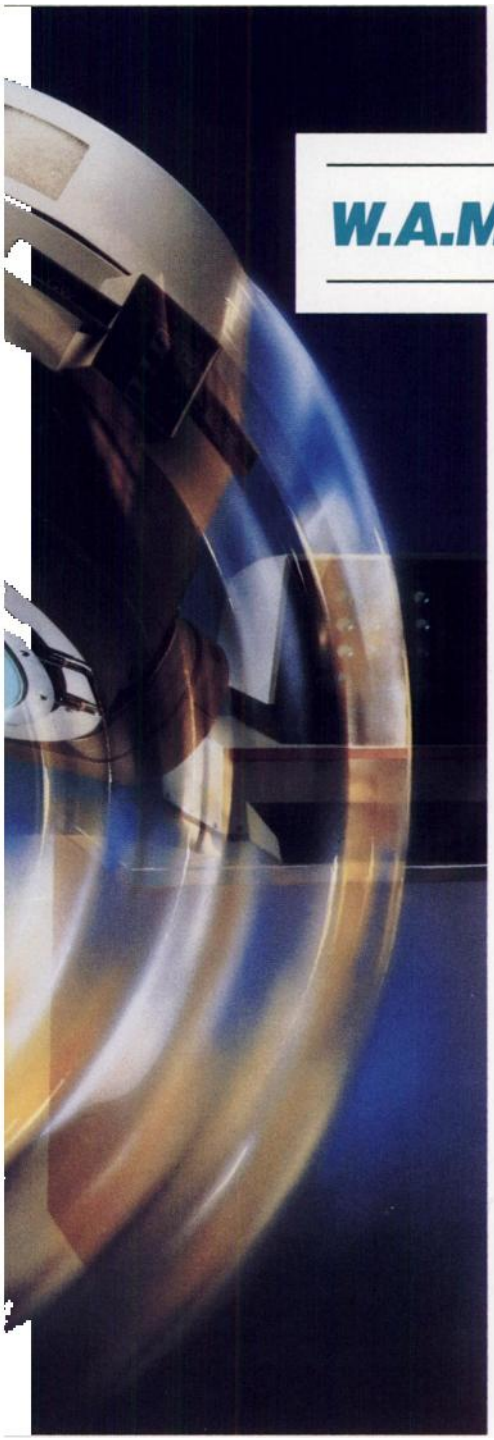
SIEMENS



Unretouched Thallium 201 SPECT Reconstruction Images. Clinical Impression: W.A.M. Invaluable for Thallium SPECT Imaging.



A to Z...our technical edge gets sharper! From Anger, to DIGITRAC,™ to ZLC,™ we've never stopped improving the Gamma Camera!

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Up Front Technology!

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W.A.M. improves upon less efficient, conventional pre-selected energy windowing. The proprietary W.A.M., "realtime spatial filtering signal processor," uses *each* event weighted value, from *every* detected photon, to produce a *complete* image.

For Improved Image Contrast! By obviating scatter corruption, W.A.M. increases diagnostic confidence with superior image contrast and acquisition throughput by providing 2 simultaneous data sets.

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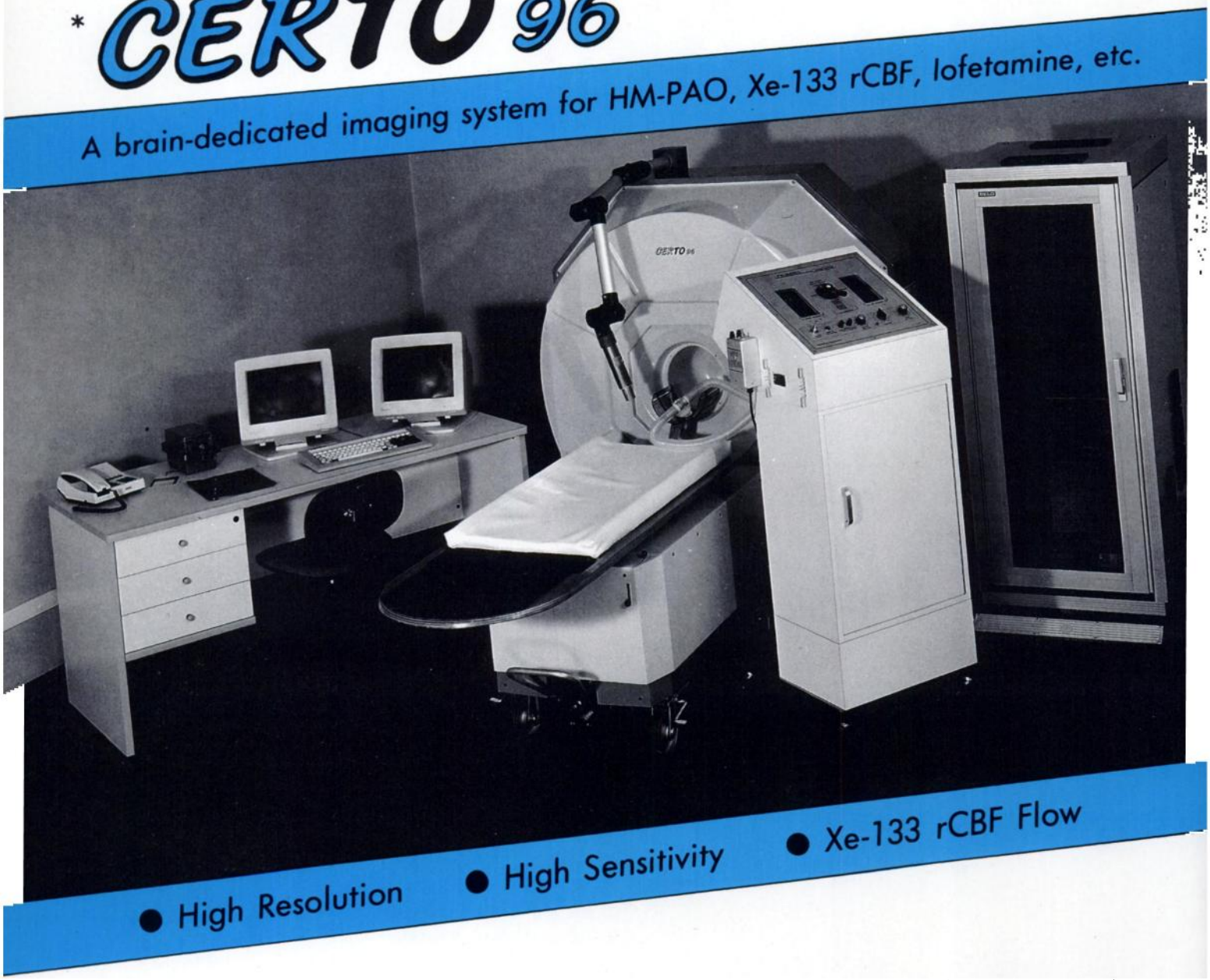
* CERTO 96

A brain-dedicated imaging system for HM-PAO, Xe-133 rCBF, Iofetamine, etc.



● High Resolution ● High Sensitivity ● Xe-133 rCBF Flow

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- Four compact camera heads cubically arranged, 96 PMT
- Intrinsic planar resolution — 3.5 mm FWHM
- Crystal area — 2030 cm²
- Number of slices — up to 28 simultaneously (non-interpolated)
- Field of view — 23 cm dia x 20 cm H
- Geometrical linearity — ± 0.2 mm

System specifications

- Tomographic transverse resolution (SHR collimator) — 6 mm
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- Collection time for one set of SPECT lateral views — 5 seconds
- SPECT, automatic DSPECT and non-SPECT operation
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Software

- Transverse, coronal, sagittal and oblique slices reconstruction
- Flow maps (rCBF in ml/100g/min)
- Macro-operation for easy user applications
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Circle Reader Service No. 95

Ask for more information!

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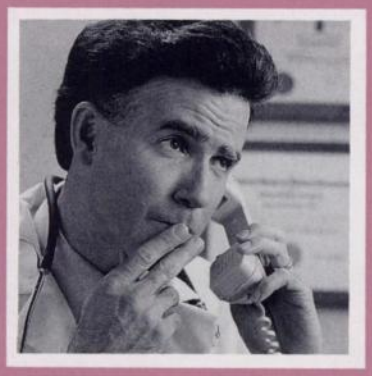

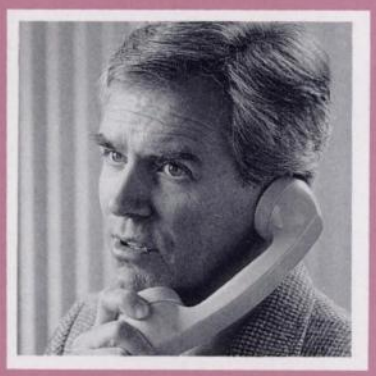

"Maybe I'm calling you too soon."

"But I'm not sure if we're ready for PET."

"I still have a lot of questions – costs, staffing, reimbursement, clinical utility."

"Maybe I should talk to a PET expert before I talk to you."

"But I don't know if we're really ready to buy a PET system."

"If you're thinking about PET, it isn't too soon."

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"We can help you find the answers."

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Call for Abstracts for Scientific Papers and Scientific Exhibits

The Society of Nuclear Medicine 37th Annual Meeting

Tuesday, June 19–
Friday, June 22, 1990

Washington, DC
Washington Convention Center

The 1990 Scientific Program Committee and Scientific Exhibits Subcommittee solicit the submission of abstracts from members and nonmembers of The Society of Nuclear Medicine for the 37th Annual Meeting in Washington, DC. Abstracts accepted for the program will be published in a special supplement to the June issue of the *Journal of Nuclear Medicine*. Original contributions on a variety of topics related to nuclear medicine will be considered, including:

- **INSTRUMENTATION AND DATA ANALYSIS**
- **RADIOASSAY**
- **RADIOPHARMACEUTICAL CHEMISTRY**
- **DOSIMETRY/RADIOBIOLOGY**
- **NUCLEAR MAGNETIC RESONANCE**
- **CLINICAL SCIENCE APPLICATIONS**
  - **Bone/Joint**
  - **Cardiovascular (clinical and basic)**
  - **Endocrine**
  - **Gastroenterology**
  - **Neurology (clinical and basic)**
  - **Oncology (non-antibody)**
  - **Immunology (antibody)**
  - **Pediatrics**
  - **Pulmonary**
  - **Renal/Electrolyte/Hypertension**
  - **Hematology/Infectious Disease**

Authors seeking publication for the full text of their papers are strongly encouraged to submit their work to *JNM* for immediate review.

Deadline for receipt of abstracts for Scientific Papers is Thursday, January 11, 1990.

Deadline for receipt of abstracts for Scientific Exhibits is Thursday, January 18, 1990.

The official abstract form may be obtained from the October, 1989 issue of *JNM* or by calling or writing:

The Society of Nuclear Medicine
Att: Abstracts
136 Madison Avenue
New York, NY 10016-6760
Tel: (212)889-0717
FAX: (212)545-0221

The Society of Nuclear Medicine

ANNUAL WINTER MEETING

TITLE
Functional Brain Imaging: Clinical Radiopharmaceutical and Instrumentation Update

DATE
Monday–Tuesday, January 29–30, 1990

LOCATION
Los Angeles Hilton, Los Angeles, California

PROGRAM
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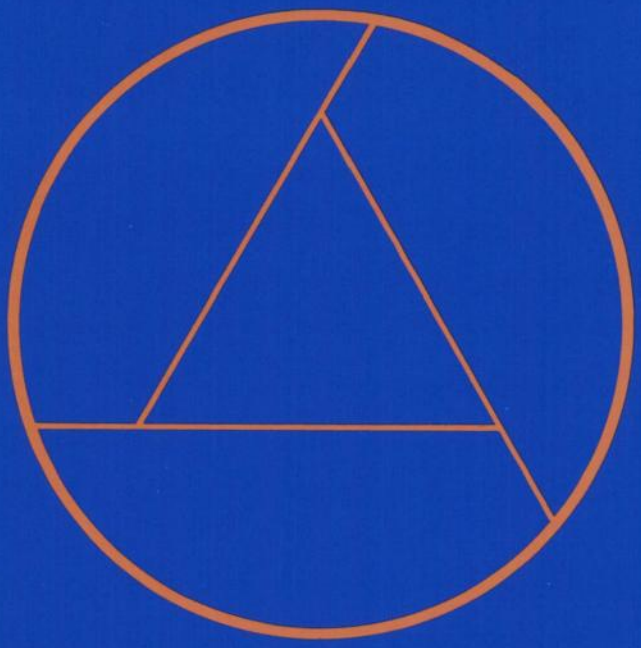
Fulfilling Our Promise



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CLINICAL EFFICIENCY

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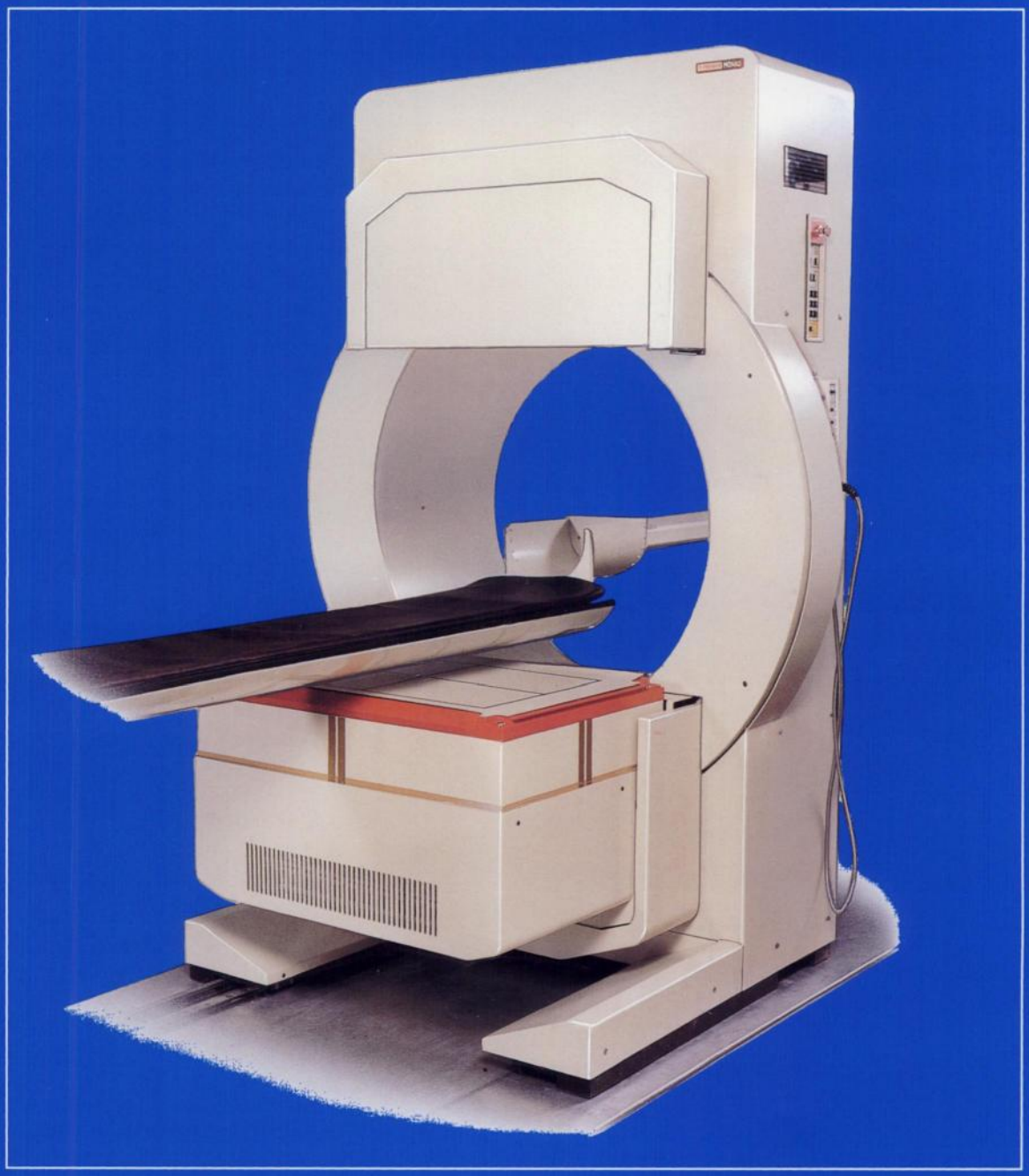
MONAD



TRIAD AND BIAD TECHNOLOGY IN A ONE DETECTOR SYSTEM

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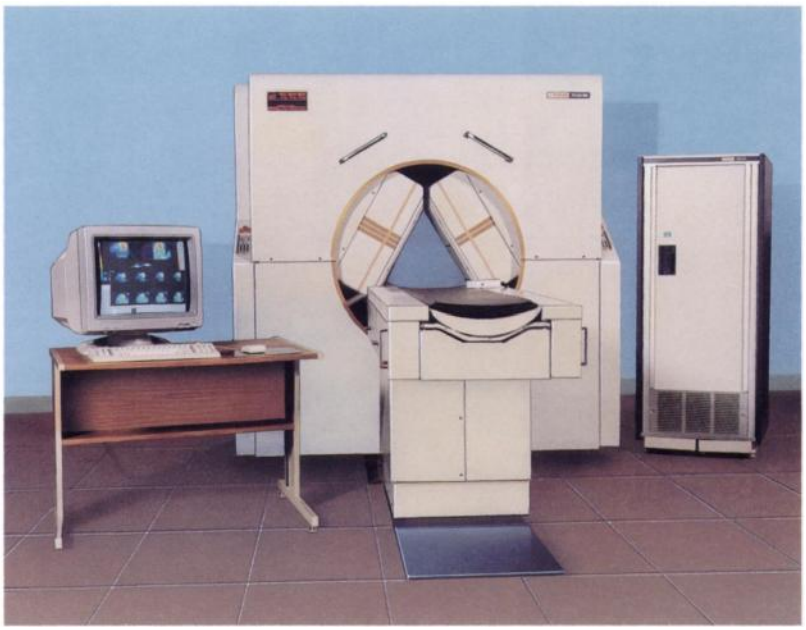
Advanced Nuclear Medicine Systems



Trionix was founded in 1986 by the core of Technicare's Nuclear Engineering Department.

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- *maintain superior professional standards*
- *develop clear business objectives*
- *always with a concern for humanity.*

For additional information, please call or write
David A. Huston,
Director Marketing & Finance

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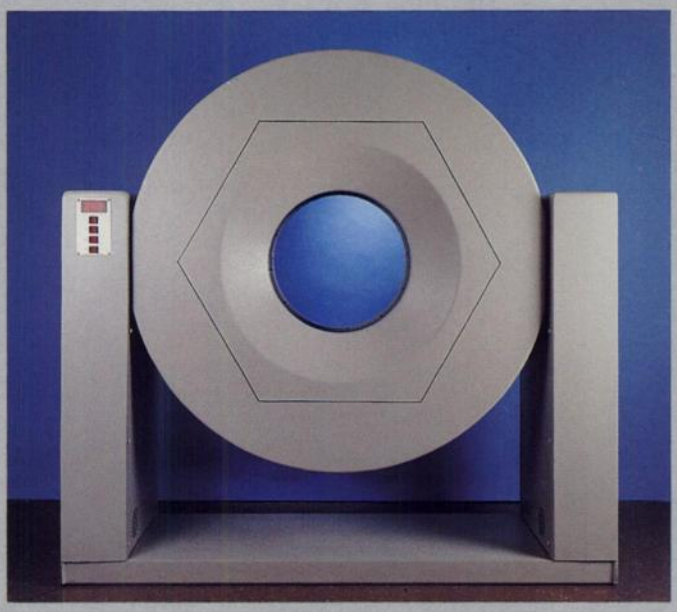
UGM Medical Systems Inc.

PENN-PET Model 240 H



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- **Equal resolution in all 3 directions** combined with fine axial sampling allows reslicing into coronal, sagittal and oblique sections.
- **Large axial field of view (12.8 cm)** and no gantry motion, such as wobbling, permits gated cardiac imaging and fast dynamic studies without sampling problems.
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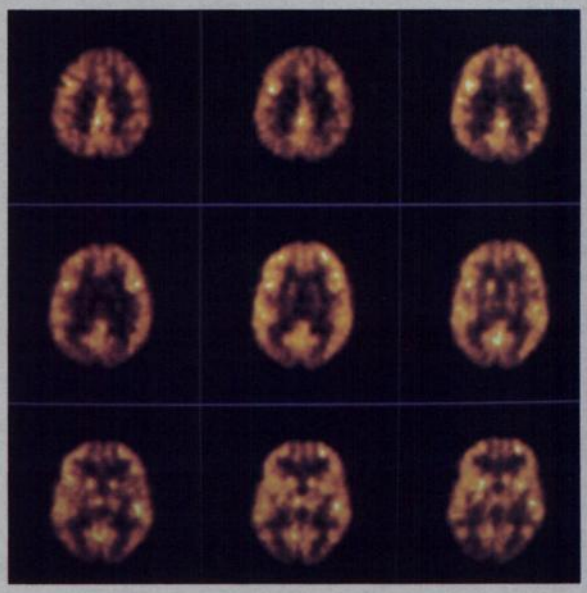

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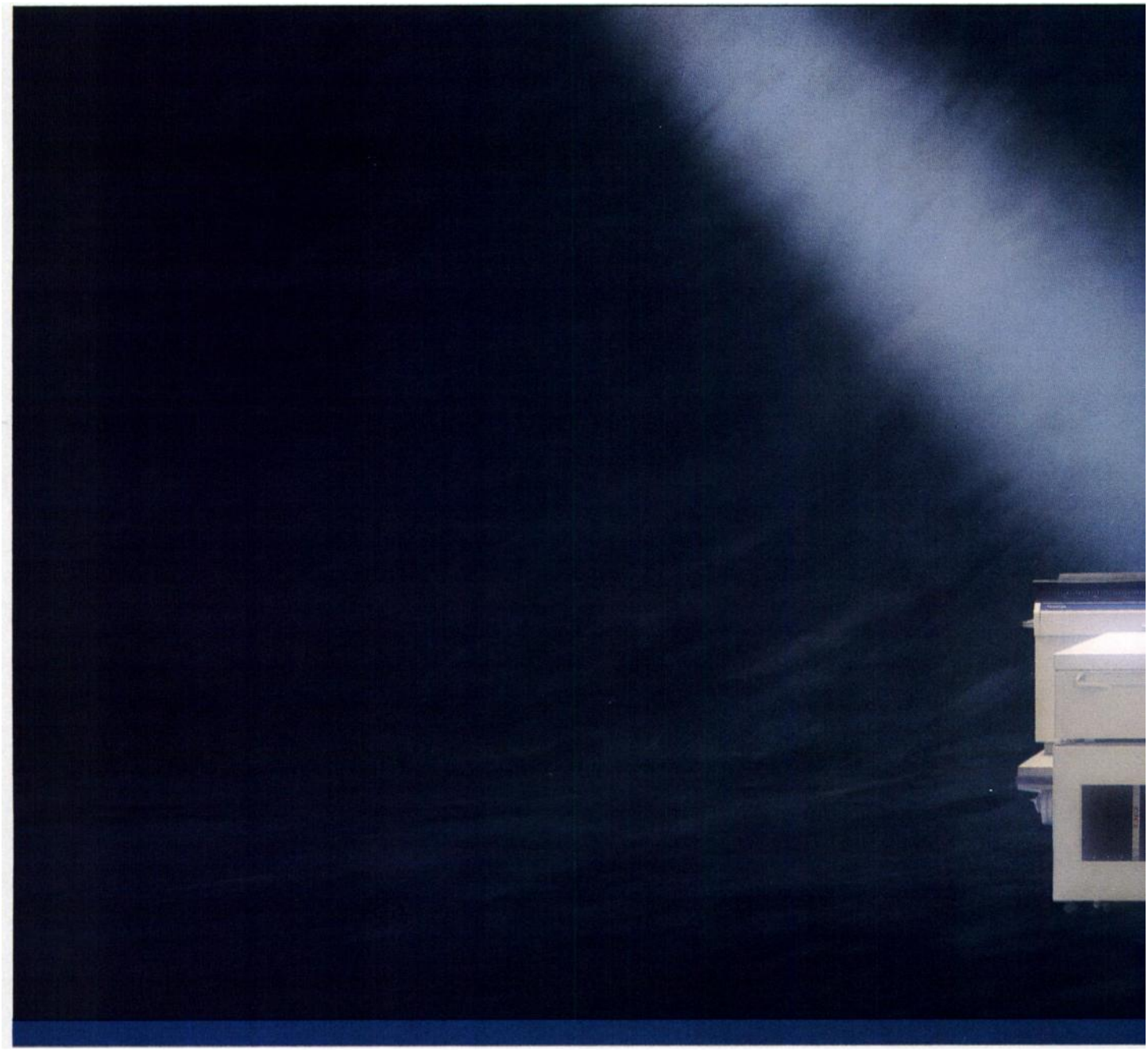
How To Produce A Simultaneous



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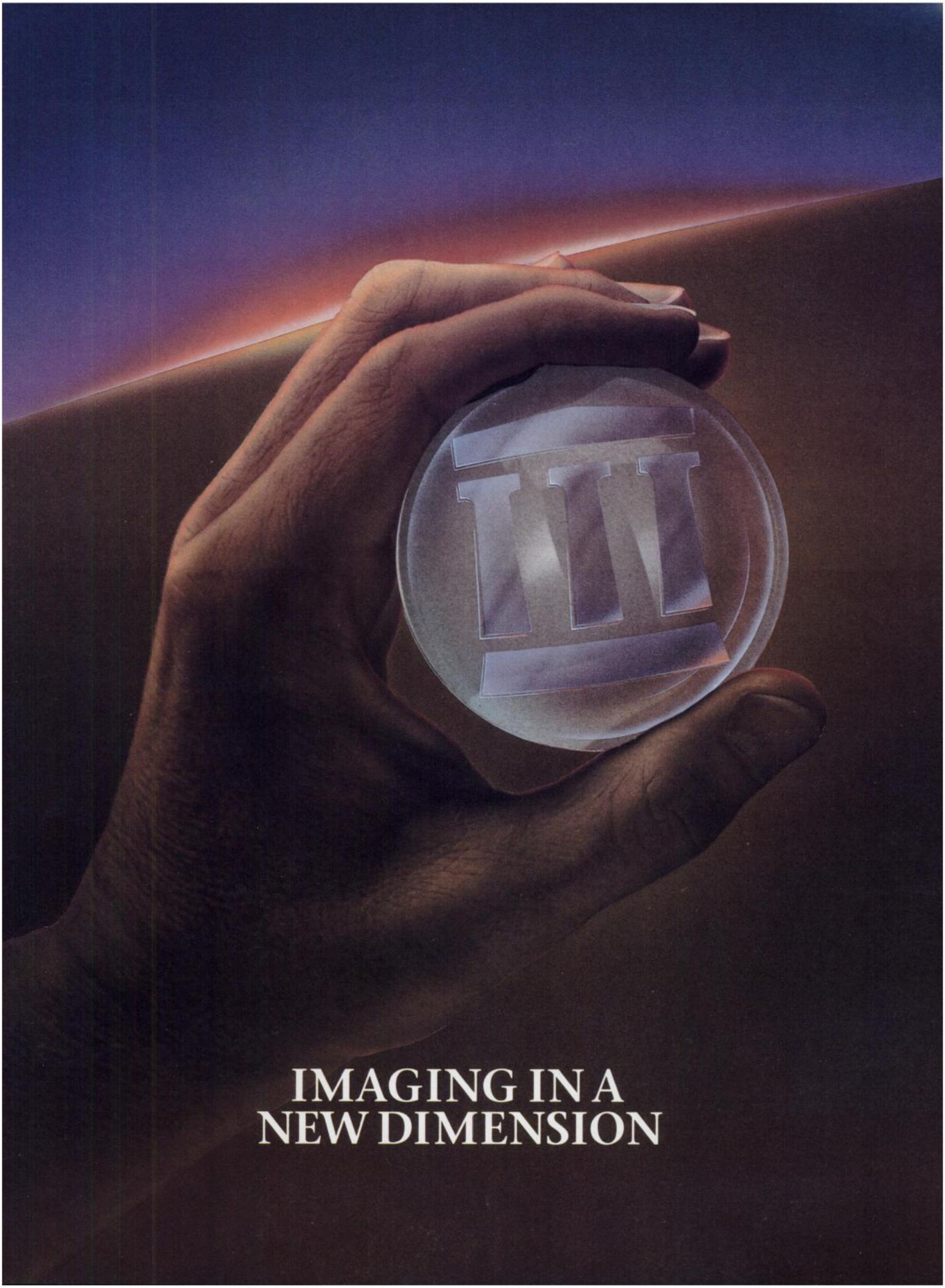
IMAGING IN A
NEW DIMENSION

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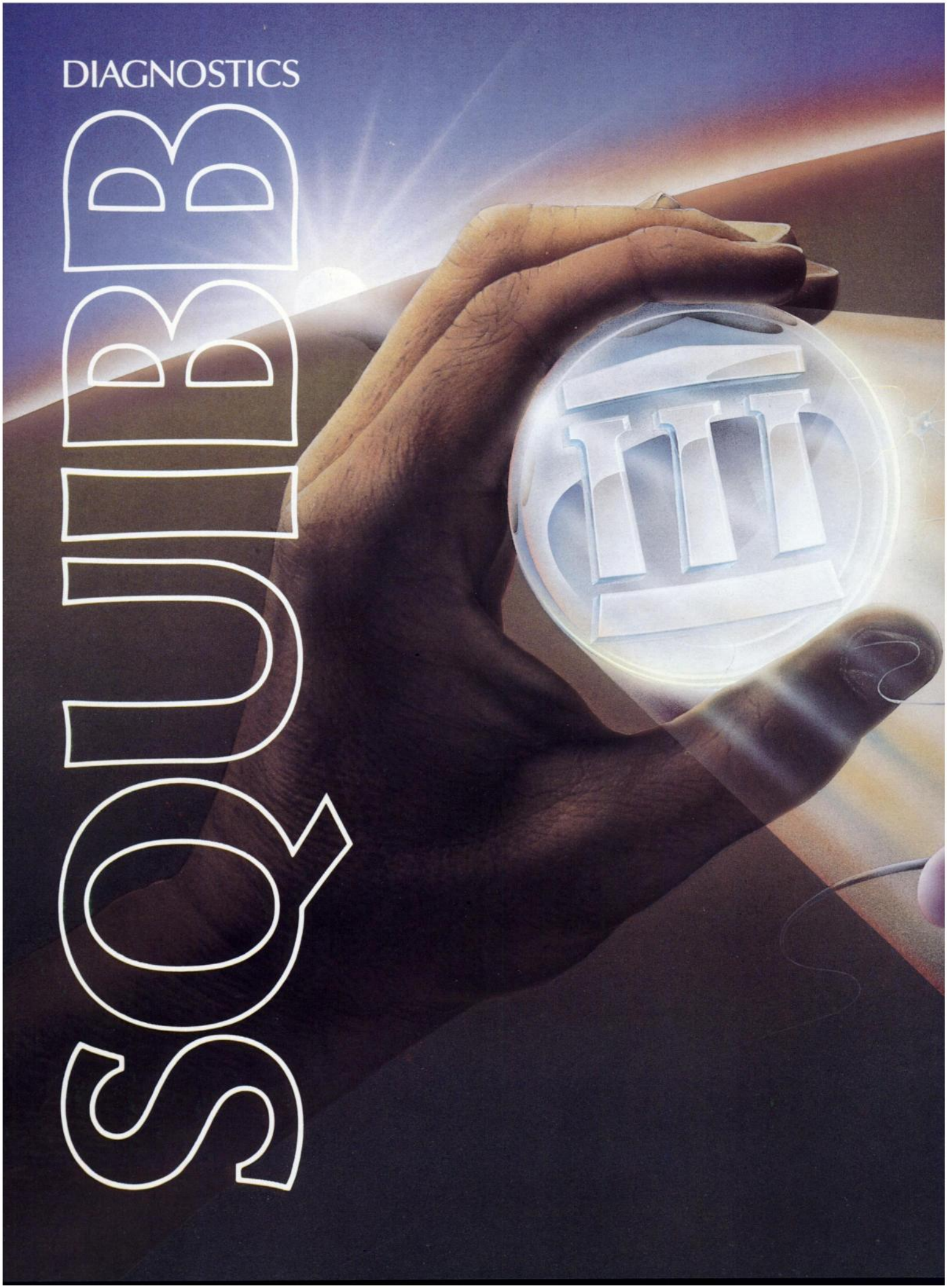

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From the Squibb heritage of imaginative research have come many internationally recognized innovations such as the first ACE inhibitor and leading angiographic contrast media – as well as other significant contributions in radiology, computed tomography and nuclear medicine. In this continuing process of discovery the Diagnostics Research and Development Division plays an integral role within the prestigious Squibb Institute for Medical Research.

Today a main thrust of Squibb Research is discovery of image-enhancing agents to complement recent developments in magnetic resonance imaging. Other major foci of interest include technetium-labeled myocardial and cerebral imaging agents as well as other nuclear medicine products for the diagnostic evaluation of anatomic and physiologic processes. This research will have a substantial impact on diagnostic medicine worldwide.

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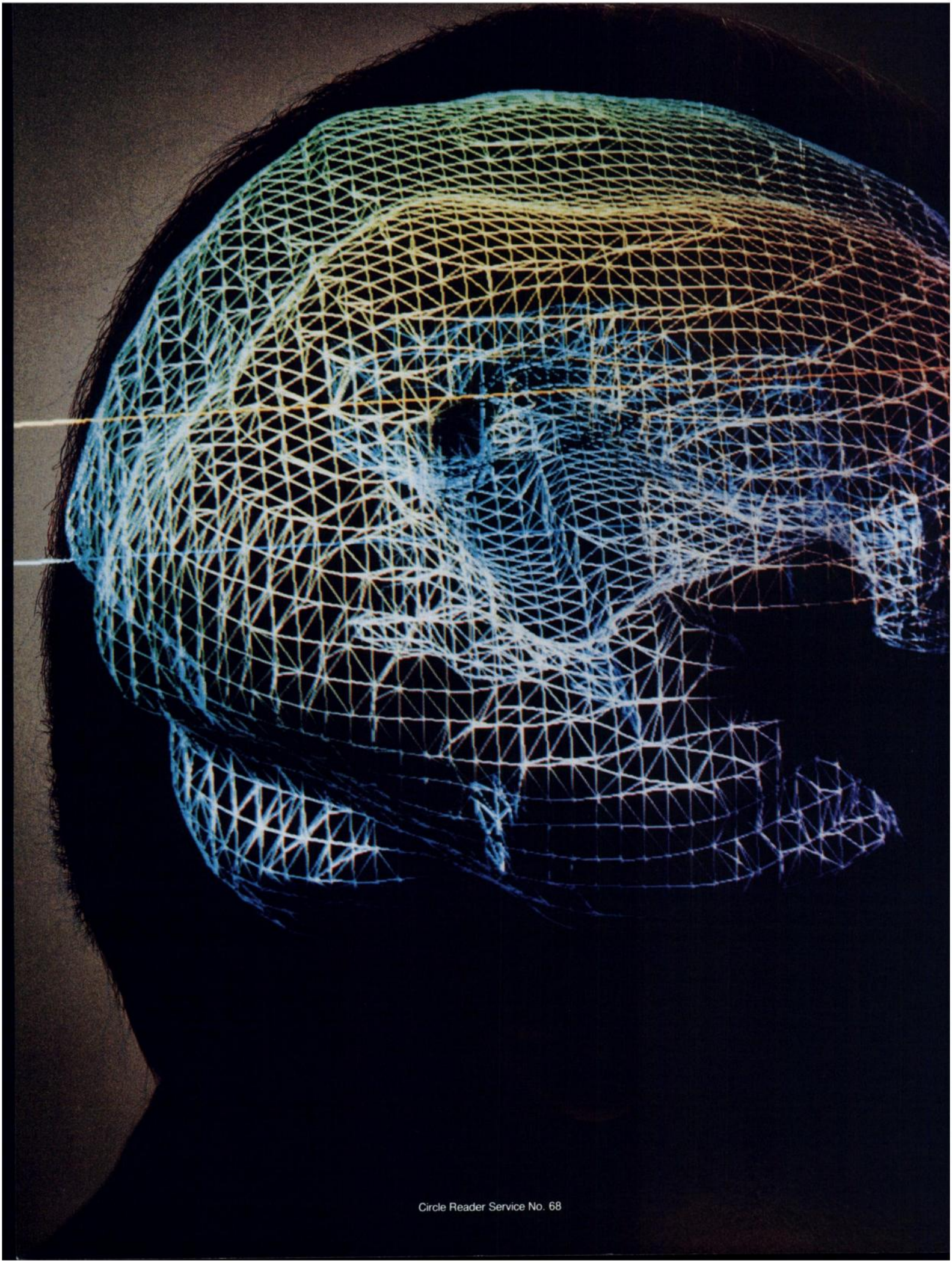

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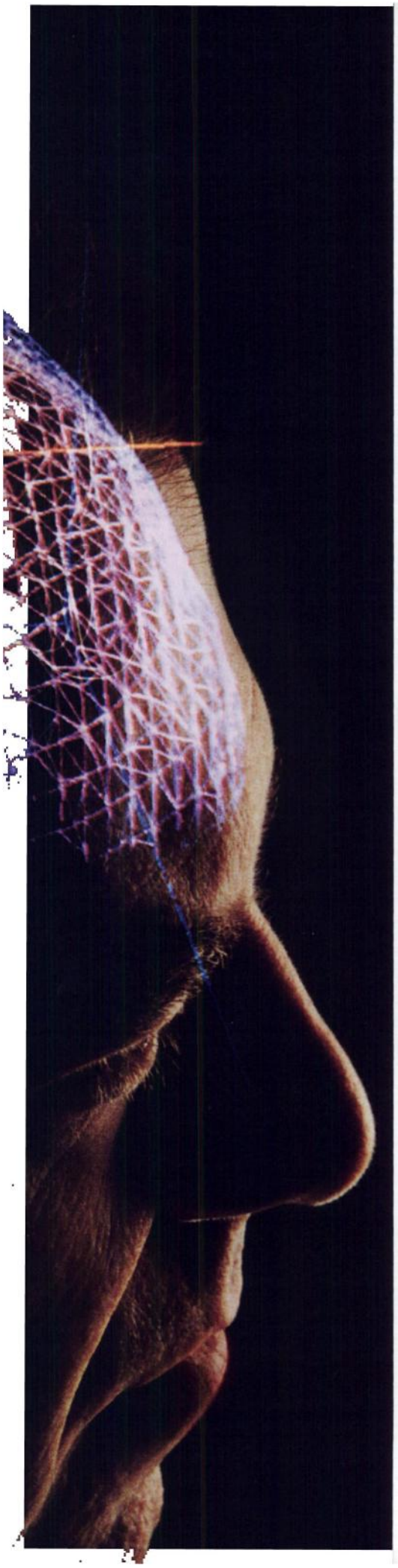

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PRISM™ 64-bit graphics supercomputer

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using aerosols to determine the patency of the pulmonary airway system? Use a gas (that's what the airway system is for), and Xenon (127 or 133) are gases which are safe, economical and easy to administer with the XENAMATIC™ 3000.

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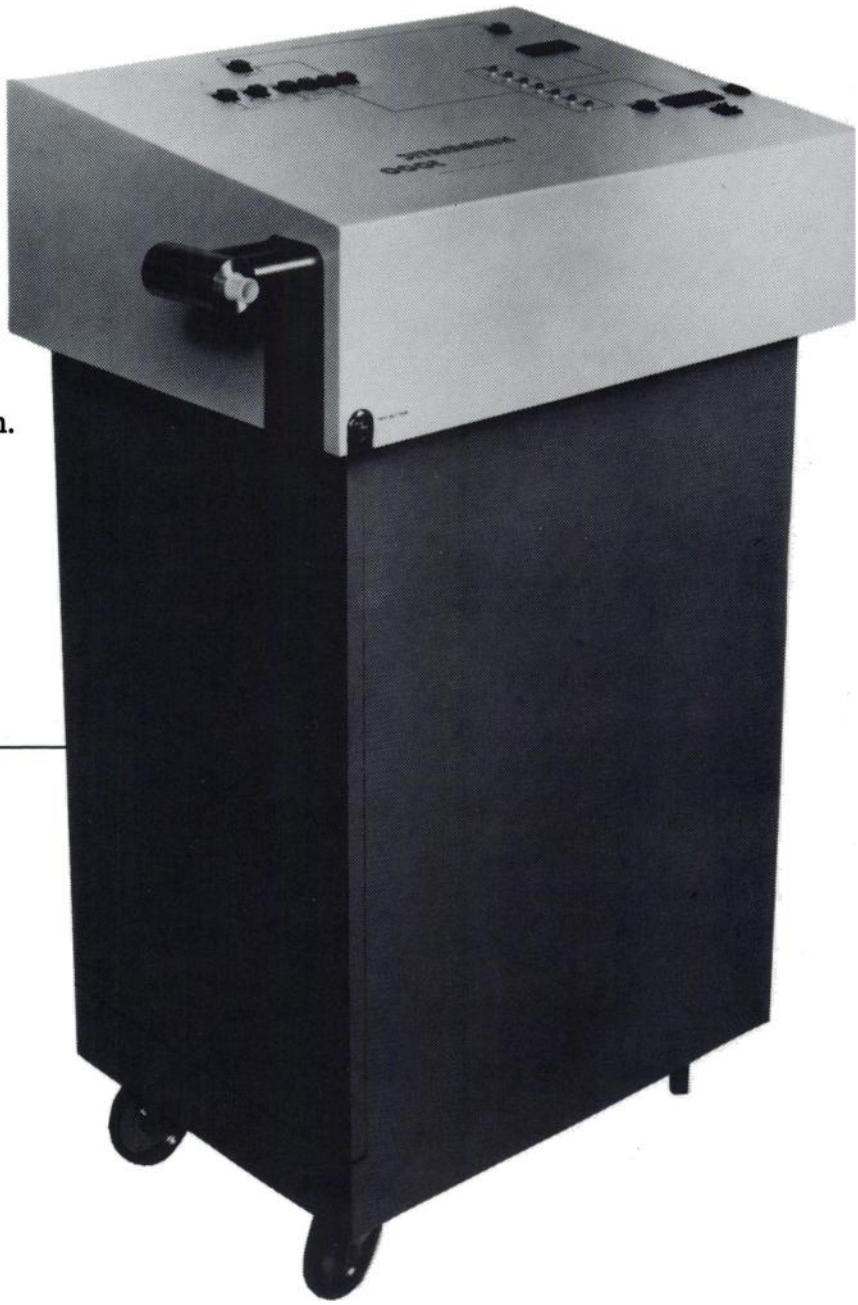

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Policy—*The Journal of Nuclear Medicine* accepts classified advertisements from medical institutions, groups, suppliers, and qualified specialists in nuclear medicine. Acceptance is limited to Positions Open, Positions Wanted, Equipment Available, and Seminars. We reserve the right to decline, withdraw, or modify advertisements that are not relevant to our readership.

Rates for Classified Listings—$17.00 per line or fraction of line (approx. 50 characters per line, including spaces). Please allow 28 characters for the first line which will appear in capital letters. Special rates for *SNM members* on Positions Wanted: $10.00 per line. *Note: Box numbers are available for the cost of the 2 lines required.*

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Full page	$1200	Quarter page	$470
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Publisher-set charges: page $100; half page $75; quarter page $40; eighth page $25.

Terms—Payment must accompany order. Make checks payable, in U.S. dollars on U.S. banks only, to: The Society of Nuclear Medicine.

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Positions Available

Faculty

RESEARCH ASSISTANT/ASSOCIATE PROFESSOR. Board certified nuclear physician. Strong interest and experience in research and teaching. Individual must interact with clinicians as well as basic science faculty. Experience with monoclonal antibody applications. Major emphasis on expanding research arm of the department. Computer aptitude and proficiency in SPECT imaging essential . Applications with CV and salary history to: Joseph A. Prezio, MD, F.A.C.P., Chairman and Clinical Professor, Department of Nuclear Medicine, University at Buffalo, 20 Diefendorf Annex, 3435 Main Street, Buffalo, New York 14214.

CLINICAL ASSISTANT PROFESSOR. Board certified nuclear physician. Have proven ability and strong interest in teaching principles and practice of nuclear medicine, experience in nuclear medicine related research and administrative skills. Individual must interact with clinicians as well as basic science faculty. Computer aptitude, proficiency in SPECT imaging and working knowledge of PET and PET applications desirable. Applications with CV and salary history to: Joseph A. Prezio, MD, F.A.C.P., Chairman and Clinical Professor, Department of Nuclear Medicine, University at Buffalo, 20 Diefendorf Annex, 3435 Main Street, Buffalo, New York 14214.

Synthetic, organic, inorganic or radiochemist to be ASSOCIATE DIRECTOR OF RADIOPHARMACEUTICAL RESEARCH at Emory University. Instructor or ASSISTANT PROFESSOR OF RADIOLOGY depending on qualifications. Tenure track or research track depending on mutual agreement. The successful applicant will engage in collaborative research and is expected to develop an independent program in radiopharmaceutical research. Previous experience with radiolabeling with Tc-99m is desired but not required. Applications will be accepted until the position is filled. Salary is contingent upon credentials and experience. Please send resumé and three letters of reference to: Andrew Taylor, Jr., MD, Department of Radiology, Emory University Hospital, 1364 Clifton Road, NE, Atlanta, Georgia 30322. Emory University is an equal opportunity, affirmative action employer.

CHIEF, DIVISION OF NUCLEAR MEDICINE, Ottawa Civic Hospital. The Ottawa Civic Hospital is a tertiary care facility affiliated with the Faculty of Health Sciences at the University of Ottawa. The Division of Nuclear Medicine provides both in and out patient services to a wide area in Eastern Ontario and Western Quebec. The Division includes a section of Nuclear Cardiology operated in collaboration with the Division of Cardiology. Active research programs in Nuclear Cardiology and Radio pharmacy are established. This position allows for teaching and research opportunities and will be associated with an appropriate University of Ottawa appointment. The successful applicant will have an FRCPC in Nuclear Medicine or equivalent. In accordance with Canadian immigration regulation, this advertisement is directed to Canadian citizens and permanent residents of Canada. Please reply to Dr. K.Y. Gulenchyn, Chief, Department of Radiological Sciences, Ottawa Civic Hospital, 1053 Carling Avenue, Ottawa, Ontario, Canada K1Y 4E9, with a copy of your curriculum vitae.

Fellowship

FELLOWSHIP in nuclear medicine, University of Missouri-Columbia. One or two year clinical and research fellowship in nuclear medicine starting July 1, 1990. The fellowship is integrated between University and adjacent Harry S. Truman Memorial Veterans Hospitals. Research opportunities include basic science and clinical work with new single photon emitting brain blood flow agents and a range of therapeutic radiopharmaceuticals. Facilities include basic science laboratories, full SPECT imaging systems at both hsoptials, and opportunities for CT, ultrasound, and MR imaging correlations. Clinical program has strong cardiovascular nuclear medicine emphasis. Candidates must be Board certified or eligible in nuclear medicine. Send letter of interest (including list of references) to: Richard A. Holmes, MD, Chief of Nuclear Medicine, University of Missouri Hospital and Clinics, 2N19 Medical Sciences, 1 Hospital Dr., Columbia, MO 65212. (314) 443-2511, Ext. 6665. EOE.

Physician

NUCLEAR CARDIOLOGIST. Large, Western New York cardiopulmonary group seeking second nuclear cardiologist with interest in continuing non-invasive clinical practice. SPECT thallium, resting and exercise MUGA in office presently with excellent growth capability. University appointed position with research potential. Full invasive and non-invasive cardiac services available. Opportunity leads to full shareholder status. Send CV to Michael Silver, Administrator; Buffalo Cardiology and Pulmonary Associates, P.C.; 5305 Main Street; Williamsville, New York 14221; 716-634-5100.

NUCLEAR MEDICINE PHYSICIAN: Newly created junior staff position with medical school appointment for a board certified or board eligible Nuclear Medicine physician or radiologist with subspecialty training in Nuclear Medicine. Opportunity to join progressive, expanding department with seven state-of-the-art gamma cameras with SPECT (2) and computerized image processing system. A 450-bed teaching hosptial with accredited radiology residency. Many clinical and research opportunities. Must be able to obtain permanent licensure in Massachusetts. If interested, please contact: Elizabeth Oates, MD, Director, Division of Nuclear Medicine, Box 228, Tufts-New England Medical Center, 750 Washington St., Boston, MA 02111. (617) 956-6342.

NUCLEAR MEDICINE PHYSICIAN. Recently trained BC/BE with IM background and experience in all aspects of NM preferred, to join two BC NM MD's in busy private practice. Fully equipped lab performing full range of NM studies in a 1000-bed hospital. Located in a sportsman's paradise with fishing, hunting, hiking, boating and canoeing. Less than 4 hrs from two major metropolitan areas. Reply to: Box 1201, The Society of Nuclear Medicine, 136 Madison Avenue, New York, NY 10016-6760.

Pathology group seeks NUCLEAR MEDICINE PHYSICIAN, BC/BE in both nuclear medicine and Anatomic/Clinical Pathology to join two physicians in community hospital practice. Position available July 1990. Send CV to Dr. Henry Strohm, 1701 W. St. Mary's Rd., Suite D108, Tucson, AZ 85745.

NUCLEAR MEDICINE PHYSICIAN. Full-time Nuclear Medicine staff position open at Univ. Hosp. ABNM certified or eligible. Ample opportunity for research and development work. Competitive salary, excellent fringe benefits. Resumé to: D. Pavel, MD, Dir., Nuclear Med., Univ. of Illinois Hospital, M/C 931, P.O. Box 6998, Chicago, IL 60680.

Radiochemist

Experienced RADIOCHEMIST required to radiolabel and perform experiments with tracer compounds and participate in radiochemical processing. Qualifications include a Masters in Science and a strong background in nuclear medicine, handling and disposing of radioactive materials, and radiochemistry. To apply, forward resumé and references to: Roberto L. Ceriani, MD, PhD, John Muir Cancer & Aging Research Institute, 2055 North Broadway, Walnut Creek, CA 94596. (415) 943-1167. EOE.

Radiologist

NUCLEAR MEDICINE SUPERVISOR. We are actively seeking a supervisor to join our staff of professionals in the nuclear medicine department. The successful candidate will have several years of certified nuclear medicine experience and at least two years of experience as a supervisor. Our department is fully equipped with state-of-the-art technology and our nuclear cardiology is second to none. We offer excellent benefits and compensation. If you qualify, call or submit your resumé to: Thomas K. Harang, Cedars-Sinai Medical Center, 8723 Alden Dr., Los Angeles, CA 90048. (213) 855-5521.

Residency

Nuclear Medicine RESIDENCY opening at the UC Davis Medical Center in Sacramento, California. Please send CV and three letters of recommendation for July 1, 1990 or 1991 to: Patrick V. Ford, MD, Residency Director, Nuclear Medicine, Room G-205, 2315 Stockton Boulevard, Sacramento, CA 95817. The University of California has a non-discriminatory policy which covers admission, access, and treatment in University programs and activities and application for, and treatment in University employment.

NUCLEAR MEDICINE RESIDENCY. July, 1990. Comprehensive imaging/RIA/therapy program in 3 hospitals (private, county, VA) with 2800 total beds. Mobile imaging for 216 ICU beds. Large pediatric population. Strong cardiovascular emphasis. State-of-the-art instrumentation including SPECT and computer processing. Training includes rotations in NMR, PET, and CT/ultrasound. Contact: Warren H. Moore, MD, Department of Radiology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. Baylor College of Medicine is an equal opportunity A/A employer.

Technologist

CHIEF NUCLEAR MEDICINE TECHNOLOGIST. Leading 350-bed community and teaching hospital located in north central Baltimore is looking for a Chief Technologist in Nuclear Medicine. Opportunity for a dynamic individual to manage a progressive, full service, state-of-the-art Nuclear Medicine Department. Fully computerized, five cameras with SPECT, stress testing, and clinical research. Desirable candidates will have a Bacehlor's degree, certification as either ARRT(N) or CNMT, a minimum of one year supervisory administrative experience and excellent communication skills. Please forward resumé to: SDL, The Union Memorial Hospital, 201 E. University Parkway, Balitmore, MD 21218.

NUCLEAR MEDICINE CHIEF TECHNOLOGIST: Danville Veterans Affairs Medical Center, an acute/long-term care facility has a full-time staff opening for a Supervisory Nuclear Medicine Technologist. The ideal candidate will possess 3-5 years of experience, preferably in a supervisory position and be familiar with SPECT. This individual will be responsible for day-to-day operation of the depart-

ment and will assist in the Radiation Safety Program. NMTCB certification preferred. We are a progressive Nuclear Medicine Department with two Technicare Gamma Cameras and one Seimen's 7500 ZLC SPECT unit and Micro-Vax Computer System due to arrive in February 1990. The Federal Government offers excellent fringe benefits and competitive salaries. Send resumé to: Pete Rudolph, Personnel Management Specialist (05-1), VA Medical Center, 1900 E. Main Street, Danville, IL 61832. (217) 442-8000, Ext. 5960. EOE.

NUCLEAR MEDICINE TECHNOLOGIST. DePaul Medical Center, a 402-bed acute care teaching facility located in Norfolk, VA, has an immediate opening for a nuclear medicine technologist. Our progressive department offers state-of-the-art equipment including a SPECT imaging camera. Qualified applicants must be registered (ARRT, NMTCB) or registry eligible technologists. Outstanding salary and benefits package. DePaul is located close to beaches, the mountains and historic areas. Interested applicants may call or send resumé to: Human Resources Dept., DePaul Medical Center, 150 Kingsley Lane, Norfolk, VA 23505 (804) 489-5241. EOE.

NUCLEAR MEDICINE TECHNOLOGIST. Vacancies exist at the VA Medical Center, Biloxi, MS, for a nuclear medicine technologist, registry certified, for the nuclear medicine department. Biloxi is a 1,130-bed hospital, 240 of which are general medical and surgical, with an active nuclear medicine department. For information contact John L. Campbell, II, MD, Chief, Nuclear Medicine Service, VA Medical Center, Pass Road, Biloxi, MS 39531, Telephone (601) 388-5541, Ext. 5129. The VA is an equal opportunity employer.

NUCLEAR MEDICINE TECHNOLOGIST: Full-time position now available for registered or registry eligible technologist to work in a progressive Nuclear Medicine department with emphasis in cardiac work. Department includes 2 cameras, 1 SPECT unit with an integrated computer system. Raleigh, centrally located in the Research Triangle area of North Carolina offers extensive social, cultural and educational opportunities to the health professional seeking a change. Send resumé to Nancy Nelson, Personnel Recruiter, Human Resources Dept., Wake Medical Center, 3000 New Bern Ave., Raleigh, NC 27610. EOE.

NUCLEAR MEDICINE TECHNOLOGIST for a progressive clinical/research general and cardiovascular nuclear medicine program. Major affiliate of Yale University. Positron Emission Tomography Center to open early 1990. Qualified applicants must possess a minimum of an associate's degree in nuclear medicine and NMTCB or ARRT certification. Previous SPECT experience is preferred. Call or send resumé to: Mark Shaffer, VA Medical Center/115, 950 Campbell Ave., West Haven, CT 06516. (203) 937-3866. EOE.

NUCLEAR MEDICINE TECHNOLOGIST. Full-time day position available for registered or registry eligible nuclear medicine technologist in a progressive, JCAHO accredited acute care Hospital located on Lake of the Ozarks in Osage Beach, Missouri. Lake of the Ozarks is a major midwest vacation area attracting millions of visitors each year and thousands of new residents. It is one of the fastest growing areas in Missouri making this an exciting place to live and a challenging environment for the health care professional. We offer excellent benefits and salary commensurate with experience . Contact Jim Schaeffer at Lake of the Ozarks General Hospital, P.O. Box 187 CB, Osage Beach, MO 65065 or call (314) 348-8358.

NUCLEAR MEDICINE TECHNOLOGIST. Position available in our beautiful new 725-bed VA Medical Center, Minneapolis, Minnesota. Work with ultramodern, state-of-the-art SPECT systems with an integrated computer network. Applicants must be registered or registry eligible. Salary commensurate with experience. For a chance of a lifetime, come experience the natural beauty of the Twin Cities with their many lakes and parks. Contact: Robert Davies, VA Medical Center, Personnel Service (05A), One Veterans Drive, Minneapolis, MN 55417. (612) 725-2060. EOE.

NUCLEAR MEDICINE TECHNOLOGIST. Staff position in medical clinic for registered/registry eligible nuclear medicine technologist. State-of-the-art SPECT gamma cameras and computers utilized. Competitive salary/benefit pkg. Located in Central CA, 90 mi. south of S.F., near Sierras and other recreational areas. Send resumé to: Gould Medical Foundation, 600 Coffee Rd. Modesto, CA 95355. Attn: Personnel. EOE.

NUCLEAR MEDICINE TECHNOLOGIST. Memorial Hospital of Sweetwater County, a 100-bed fully accredited hospital in Rock Springs, Wyoming is currently searching for the position of registered Nuclear Medicine Technologist. Excellent benefits and salary enhance this position. Premiums for health, dental, and vision benefits are fully paid by the hospital for employees and their dependents. 25 days PDO. No state income tax. We are located very close to all season amenities of Jackson Hole, The Grand Tetons, and Yellowstone National Park. Salt Lake City and the resorts of Utah and Colorado are within short driving distance. Interested applicants should contact the Personnel Department: Memorial Hospital of Sweetwater County, PO Box 1359, Rock Springs, WY 82901. Call Collect (307) 362-1490. EOE.

NUCLEAR MEDICINE TECHNOLOGIST. Immediate full-time opening in nuc. med. laboratory. Must be registered NMT. Salary commensurate with experience. For further information contact Diane Robertson, Personnel (664/05D); VA Medical Center, 3350 La Jolla Village Drive, San Diego, CA 92161. (619) 453-7500 ext. 3401.

Technologist Equipment Marketing

NUCLEAR MEDICINE APPLICATIONS SPECIALISTS. ADAC Laboratories, a leader in medical image and information processing systems, has challenging opportunities for applications specialists. In this highly visible marketing position, you will be responsible for training customers on the use of computer systems software, demonstrating equipment at trade shows, and providing customer support with post-training follow-up calls. This position requires a minimum of 3 years staff level experience as a nuclear medicine technologist. The successful candidate will have a strong clinical background in cardiac work and ECT procedures as well as general clinical work such as renals, lungs, brains, and bone imaging. Prefer a minimum of 1 year experience operating ADAC equipment. Applicants should have ARRT and CNMTB registration. AA and/or BS degree a plus. Excellent verbal and written communication skills required. Ability/willingness to travel is also required. We offer an outstanding salary and a benefits package that is among the finest in the industry. Please send your resumé to ADAC Laboratories, 540 Alder Drive, Milpitas, CA 95035, Attn: Jim Piper. Equal Opportunity/Affirmative Action Employer.

Positions Wanted

NUCLEAR MEDICINE PHYSICIST. M.Sc, 15 years experience (cardiac studies, SPECT, quality control, teaching, etc). Interested in 1-2 year position in US or in Canada. Contact: B. Belfer, Yonah Green 5, Petah Tikvah, Israel 49272.

ABNM, ABIM with experience in teaching, clinical and academic settings seeks full time position. Contact: José O. Morales, MD, 430 Ariel St., Río Piedras, P.R. 00923.

Equipment

FOR SALE: MicrodelTAS (CDA-Siemens) terminals with keypads; Digital VAX 11/730 computer system, R80, RL02 units; communication module, model H-COM/Mac 89; DECWriter III printer, including number pad; Kennedy model 9100 tape drive; matrix instrument video imager; color monitor; Technicare 560 computer with array processor, SPECT capable; Gemini 700 gamma camera (Technicare-GE) with sentinel electronics, including whole body and SPECT imaging tables; medium energy collimator; high energy collimator; high energy pinhole collimator; high resolution collimator. Prices negotiable. Please contact Dr. R. Menard, Center for Molecular Medicine and Immunology, 1 Bruce Street, Newark, NJ 07103. Telephone (201) 456-4600.

ELSCINT APEX 410 Digital Gamma Camera System. Color monitor; 4 collimators; Call Mr. Alkalay at (516) 773-6100.

For Sale, Technicare 420/550, ADAC DPS 2800 Computer. We offer the highest prices for all types of Nuclear Medicine Cameras & Computers. Call Franklin at Imaging Solutions (415) 924-9155.

FIRST IMPRESSIONS?

Editor-elect H. William Strauss, MD, is interested in receiving unusual images of traditional scan subjects-or-scans of non-traditional subjects, for a new addition to the Journal entitled "First Impressions," which will be seen in the Journal on a monthly basis beginning in January of 1990. Akin to Dr. Henry Wagner's "Image of the Year," these images need not be related to the submission of manuscripts to the Journal. Rather they should be interesting in and of themselves. Submit your images, along with a completed form (included below), to:

FIRST IMPRESSIONS—THE JOURNAL OF NUCLEAR MEDICINE,
Room 5406, MGH-East, Building 149, 13th Street, Charlestown, MA 02129

Institution: _____ **Tracer:** _____

Name: _____ **Route of Administration:** _____

Instrumentation: _____ **Time After Injection:** _____

Purpose: _____

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for positions at a newly created

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To head divisions of PET Cardiology, PET Neurology and PET Psychiatry. The individual will have a joint appointment in Nuclear Medicine and in their respective specialty department and will be appointed at the Associate Professor/Professor level.

Applicants should be board certified in their primary specialty, have research experience in PET and a background necessary to compete for extramural funds.

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Applicant should have research experience in PET radiochemistry including a broad background in the synthesis of tracers labeled with F^{18}, C^{11}, N^{13} and O^{15}. In addition, experience in the design and construction of remote synthesis systems, a knowledge of pharmacokinetic modeling with PET tracers and the background necessary to compete for extramural funds are required.

Salary and academic rank for all positions are negotiable and will be commensurate with the degree of training and previous experience.

Address inquires to:

Joseph A. Prezio, M.D.
Chairman and Professor
SUNY/Buffalo
Department of Nuclear Medicine
20 Diefendorf Annex
3435 Main Street
Buffalo, N.Y. 14214

EASTERN SYDNEY AREA HEALTH SERVICE

THE PRINCE OF WALES HOSPITAL
High Street, Randwick
New South Wales, Australia, 2031

Trained Nuclear Medicine Technologists

Two positions will become vacant early in 1990 for suitably qualified Nuclear Medicine Technologists at The Prince of Wales Hospital.

The Department of Nuclear Medicine provides a full range of nuclear medicine procedures including computerised and tomagraphic studies to The Prince of Wales Hospital, The Prince Henry Hospital and The Prince of Wales Children's Hospital, which with 1250 beds, is the major teaching complex of the University of New South Wales.

Applicants must be prepared to participate in on-call services as well as become involved in research projects.

Applicants should be accredited or be eligible for accreditation by the Australian and New Zealand Society of Nuclear Medicine. Reciprocity exists with the Canadian Association of Medical Radiation Technologists.

Applications in writing, giving full details of qualifications and experience, together with the names and addresses of two referees, should be forwarded to the Staff Manager, Eastern Sydney Area Health Service, Cnr. High and Avoca Streets, Randwick, N.S.W., Australia, 2031.

The Eastern Sydney Area Health Service is an Equal Opportunity Employer and supports a Smoke-free workplace

Medical Opportunities

Certified Nuclear Medicine Technologist

The Nuclear Medicine Section, Department of Radiology, University of Tennessee Medical Center, Knoxville, Tennessee is accepting applications for certified nuclear medicine technologists.

UTMCK is a 600-bed Level I Trauma Center and the regional referral center for East Tennessee. The Department of Radiology is a comprehensive diagnostic imaging center with x-ray radiography, CT, MR and clinical PET. The Nuclear Medicine Section performs 5000 conventional procedures and more than 1000 clinical PET studies per year. There is a CAHEA accredited school of nuclear medicine technology. Active research areas include neurology, cardiology and oncologic PET.

Applicants must be certified nuclear medicine technologist with experience in nuclear mediciner technology education. Experience in clinical research is desirable. The position will include teaching responsibilities in the nuclear medicine technology school and will provide special training opportunities in clinical PET technology. The salary will be commensurate with the applicant's training and experience.

Interested candidates should submit a letter of interest & resume to:

Department of Personnel Services

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NUCLEAR MEDICAL TECHNOLOGIST

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Pleasant, dynamic community hospital with teaching programs and radiology residency has an immediate opening for a Nuclear Medical Technologist to work as part of a professional team. Registry or eligible.

Norwalk Hospital offers excellent salaries and benefits as well as every opportunity for personal and professional growth. Please call today:

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Memorial Medical Center, a 600 bed teaching health care facility affiliated with Southern Illinois University School of Medicine and located in Springfield, Illinois, is currently recruiting for a full-time Nuclear Medicine Technologist to join our staff of 4 technologists in the Nuclear Medicine division.

The department currently utilizes state-of-the-art GE imaging equipment and SPECT and participates in ongoing research projects, including monoclonal antibody studies.

You will benefit from our community-oriented lifestyle, rich in educational institutions, cultural activities and recreational opportunities for a current population of 105,000. We feel that this would be a challenging position for either the new graduate or experienced technologist. Memorial offers a merit-based salary system, flexible benefit package, on-site child care, 100% tuition reimbursement, and relocation assistance. Interested candidates may call (217) 788-3580 collect or forward resume to Allen Kelley, Employment Associate, MEMORIAL MEDICAL CENTER, 800 N. Rutledge, Springfield, IL 62781.

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To qualify, you must have current California licensure and 4 years experience as a Nuclear Medicine Technologist, plus 2 years experience as an Administrative Technologist. You must be registered in Nuclear Medicine Technology by the American Registry of Radiologic Technologists or certified by the Nuclear Medicine Technology Board.

At Kaiser Permanente, our Nuclear Medicine Technologists are viewed as integral members of the organization. They work in close collaboration with physicians and other health care professionals, and have access to the latest radiologic technology. We also offer competitive salaries and a comprehensive benefits package.

Join Kaiser Permanente, Los Angeles, as we prepare for the next decade, and the next century, of growth. For further information, please submit your resume to: **Kaiser Permanente, Personnel Dept. JOU-108-12/89, 1515 N. Vermont Ave., 2nd Floor, Los Angeles, CA 90027.** We are an Equal Opportunity Employer.

Physician

DIRECTOR • NUCLEAR MEDICINE

IMMEDIATELY required to Head the Nuclear Medicine Department at the Plains Health Centre, Regina, Saskatchewan, a 303-bed teaching referral centre affiliated with the College of Medicine, University of Saskatchewan. The hospital also serves as the major Cardioscience and Neuroscience Facility for the Southern half of the Province of Saskatchewan. The successful applicant should have competence in all aspects of Diagnostic and Therapeutic Nuclear Medicine. Applicants must be FRCP(C) in Nuclear Medicine or be eligible to take the examinations. In accordance with the Canadian Immigration Requirements, preference will be given to Canadian Citizens. Please submit curriculum vitae and references to Dr. D. Chinn, Secretary, Search Committee, Plains Health Centre, 4500 Wascana Parkway, Regina, Saskatchewan, S4S 5W9.

RESIDENCY

STANFORD UNIVERSITY SCHOOL OF MEDICINE—NUCLEAR MEDICINE RESIDENCY PROGRAM. Resident position is available beginning July 1, 1990 for a two year program at Stanford University Medical Center and affiliated Veterans Administration Medical Center. Patients from the Children's Hospital at Stanford are also studied at the University Hospital. The program is approved by the ACGME and satisfies the requirements of the American Board of Nuclear Medicine. Prerequisite for entry into program: two years prior training in an ACGME-approved program in internal medicine, radiology, pathology, or pediatrics. Requests for further information (include CV and reference list) should be directed to: **Dr. I. Ross McDougall, Professor of Radiology and Medicine, Stanford University Medical Center, Room H-0115, Stanford, CA 94305-5281.** Stanford University Medical Center is committed to increasing representation of women and members of minority groups in its resident training programs and particularly encourages applications from such candidates.

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Eastern Maine Medical Center, a sophisticated, 416-bed facility serving half the state of Maine with virtually every medical specialty, is seeking a Nuclear Medicine Technologist. Our Nuclear Medicine Department has three gamma cameras including one with SPECT capabilities. A full range of diagnostic and therapeutic procedures are performed.

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Henry Ford Hospital, a 937-bed hospital dedicated to patient care, medical education and research, is currently seeking a Nuclear Pharmacist for its Division of Nuclear Medicine. The successful candidate for this position will be responsible for the delivery of radiopharmacy services, instructing nuclear medicine and radiology residents, administrative activities, and divisional compliance with all regulatory and quality assurance standards.

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Robert Wood Johnson University Hospital, the 416-bed university-affiliated teaching hospital, has a full time day position Mon.-Fri.

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The Austin Hospital is finalising plans for its Positron Emission Tomography (P.E.T.) Centre, which is expected to be operational in mid to late 1991. The Austin's P.E.T. Centre will be the first P.E.T. Centre in Victoria and will operate within the current Nuclear Medicine Department. It will liaise closely with and complement the planned P.E.T. Centre at Royal Prince Alfred Hospital in Sydney, which is being developed in conjunction with the National Medical Cyclotron Programme. The Austin and Royal Prince Alfred Hospitals have formed an association under the name of "AUSTPAC" to manage the introduction of P.E.T. technology to Australia.

The initial task will be to provide technical leadership to the team planning the P.E.T. Centre. Key decisions that will require substantial input from the Senior Scientist include the specification of the appropriate equipment, the physical design of the P.E.T. Centre and the development of appropriate operating models.

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All enquiries to Dr. John McKay, Director of Nuclear Medicine on (613) 450 5163 Fax. (613) 459 1473.

A detailed job description is available from the Senior Employment Officer Tel. (613) 450 5891 Fax. (613) 459 1473 to whom written applications should be forwarded not later than 31.1.90. Austin Hospital, Heidelberg Vic 3084 Australia.

Austin

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RADIOLOGIST

Opening March 1 for Nuclear Medicine board certified radiologist to join 6-member radiology group. Applicant should be competent in all phases of Diagnostic Radiology including: MR, CT, US, and angio. NM division has 3 SPECT and 1 gamma camera, approximately 5,500 exams/yr. (33% nuclear cardiology). Excellent starting salary and benefits, with equal partnership to follow. Call and/or forward C.V. to: Jon Abrahams, MD, Conemaugh Valley Memorial Hospital, Department of Radiology, 1086 Franklin Street, Johnstown, PA 15905, (814) 533-9166.

■ Physicist

The Nuclear Medicine Service of Brockton/West Roxbury VA Medical Center is seeking a Physicist who is familiar with Nuclear Medicine instrumentation and radiation protection. The candidate should have an M.S. degree, its equivalent or higher and be interested in research and teaching. The VA Medical Center is a teaching affiliate of the Harvard Medical School. Please contact: **Dr. Donald E. Tow at (617) 323-7700, Ext. 5270 at 1400 VFW Parkway, West Roxbury, MA 02132.** The VA is An Equal Opportunity Employer.

35th Annual Meeting Southwestern Chapter, SNM, April 6–8, 1990 Houston, Texas

The 35th Annual Meeting of the SW Chapter, SNM, will be held at the Doubletree Hotel, Post Oak, near the Galleria in Houston.

SCIENTIFIC PROGRAM—Charles Boyd, *Chairman*
Dr. Sally J. DeNardo, University of California at Sacramento, will present the 13th annual Ted Bloch Lecture. The Southwestern Chapter Distinguished Lecturers will be Dr. Gerald L. DeNardo, UC Davis at Sacramento, and Dr. Richard Holmes, University of Missouri at Columbia. In addition, there will be other invited speakers and scientific papers. On Sunday morning there will be a special joint session with the Technologist Section, organized by Terri Boyce, on medicine and space. This promises to be an exciting and innovative session.

COMMERCIAL EXHIBITS
We will have commercial exhibits with space for 36 8′ × 10′ booths. For information on exhibiting, contact Judy Brockmeyer, (415)647-4179.

REGISTRATION FEES
Physicians/Scientists–Member: $100; Non-member:$125
Techs/Residents/Interns–Member: $55; Non-member: $85.

For more information, contact Jean Parker, Executive Director, SWC, SNM, P.O. Box 40279, San Francisco, CA 94140. Phone: (415)647-1668; Fax: (415)647-8392.

The Society of Nuclear Medicine 37th Annual Meeting

Tuesday, June 19–
Friday, June 22, 1990

Washington, DC
Washington Convention Center

Call for Abstracts, Scientific Exhibits and Works-in-Progress for the Technologist Program

The 1990 Scientific and Teaching Sessions Committee solicits the submission of abstracts from members and nonmembers of The Society of Nuclear Medicine for the 37th Annual Meeting in Washington, DC. Abstracts accepted for the program will be published in the June issue of the *Journal of Nuclear Medicine Technology.* Works-in-Progress will be published in the September issue of the *Journal of Nuclear Medicine Technology.* Original contributions on a variety of topics related to nuclear medicine will be considered, including:

- **INSTRUMENTATION AND DATA ANALYSIS**
- **RADIOASSAY**
- **RADIOPHARMACEUTICAL CHEMISTRY**
- **DOSIMETRY/RADIOBIOLOGY**
- **NUCLEAR MAGNETIC RESONANCE**
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  - **Pediatrics**
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  - **Renal/Electrolyte/Hypertension**
  - **Hematology/Infectious Disease**

Authors seeking publication for the full text of their papers are strongly encouraged to submit their work to *JNMT* for immediate review.

Deadline for receipt of Abstracts is Thursday, January 11, 1990.

Deadline for receipt of Scientific Exhibits is Thursday, January 18, 1990.

Deadline for receipt of Works-in-Progress is Friday, April 6, 1990.

At the 1990 Annual Meeting, cash awards will be given to the three best papers. First prize is $200, second prize $150, and third prize $100.

The official abstract form may be obtained from the October, 1989 issue of *JNM* or by calling or writing:

The Society of Nuclear Medicine
Att: Abstracts
136 Madison Avenue
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Tel: (212)889-0717
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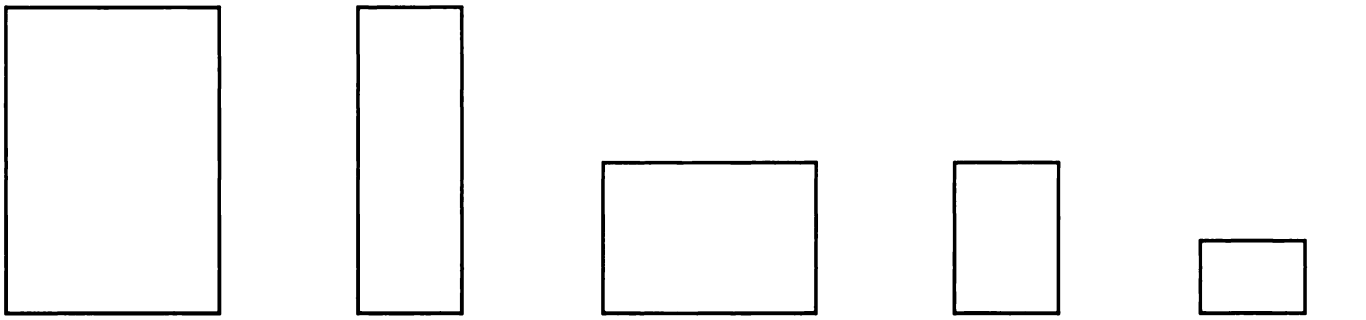

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DEADLINES: *JNM*—First of the month preceding the publication date (for example, October 1 for November issue). *JNMT*—25th of second month preceeding publication date (for example, October 25th for December issue).

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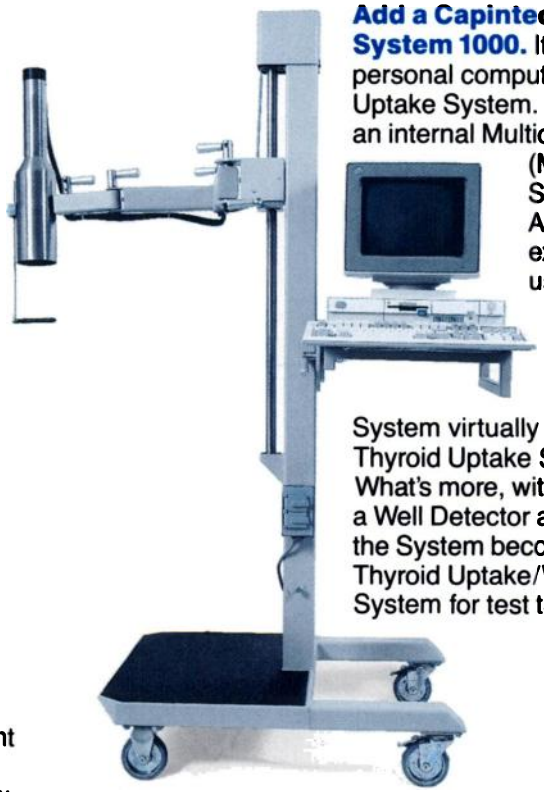

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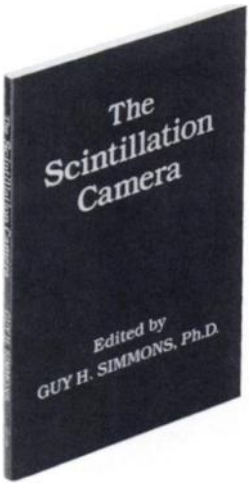

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- ***The calculation of absorbed dose***
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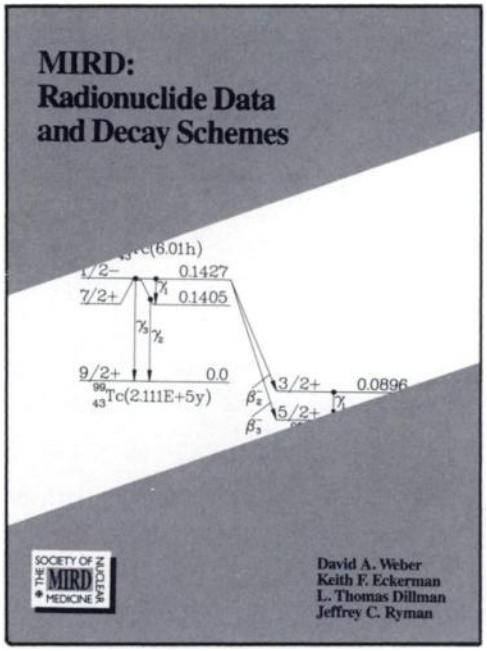
- ***The determination of suitability of a radionuclide's decay scheme for clinical imaging, RIA, radiation therapy, and other biomedical applications.***



MIRD: Radionuclide Data and Decay Schemes David A. Weber, Keith F. Eckerman, L. Thomas Dillman, Jeffrey C. Ryman. 456 pp. Hardbound. $45 members; $60 nonmembers.

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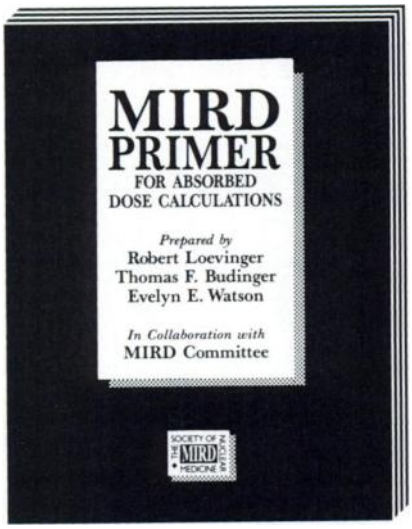

MIRD PRIMER

For Absorbed Dose Calculations

Prepared by

Robert Loevinger
Thomas F. Budinger
Evelyn E. Watson

In Collaboration with the MIRD Committee

The MIRD Primer for Absorbed Dose Calculations was prepared by the MIRD Committee to provide a fresh explanation of the MIRD schema with examples designed to illustrate applications.

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Part 2 amplifies this explanation with examples designed to illustrate applications beginning with relatively simple problems and working up to more complex ones.

Part 3 contains previously published MIRD absorbed dose estimates, now readily assembled in one book, that have been revised and edited for this publication.

Part 4 contains three appendices: List of MIRD Pamphlets, A Revised Schema for Calculating the Absorbed Dose from Biologically Distributed Radionuclides, and Kinetic Models for Absorbed Dose Calculations.

The MIRD Primer also contains a substantive index, a detailed glossary and list of symbols, and for your handy reference calculation tables on the inside front and back covers; 128 pp.

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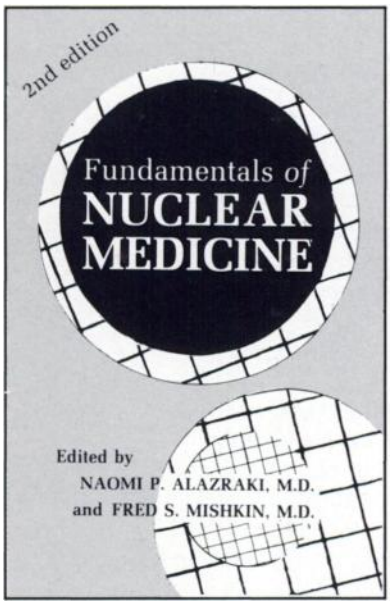

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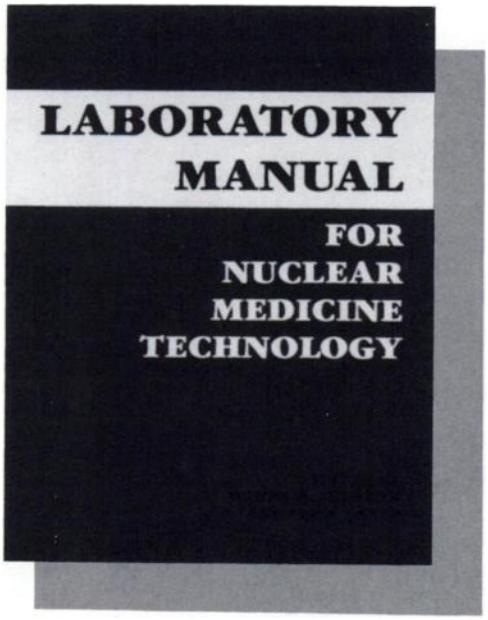

LABORATORY MANUAL for Nuclear Medicine Technology

Edited by Wanda M. Hibbard, CNMT, and Sue P. Lance, CNMT

In response to a need for standardizing the learning experiences of student technologists, the *Laboratory Manual for Nuclear Medicine Technology* has been prepared for nuclear medicine technology training programs. The exercises were written by educators with years of experience in their respective areas of expertise and were field tested by technologists in nuclear medicine schools—both instructors and students.

Individual exercises have been grouped into major subject areas. The purpose of each exercise is clearly defined in the rationale; and the objectives, materials to be used, step-by-step procedures, study questions, and selected references are included. Instructors may rearrange the format according to the facilities and requirements of their particular programs.

This manual will serve to enhance the student's knowledge of a standard curriculum and develop competency in clinical practice. It provides the most comprehensive training resource available to be used in a laboratory setting. In addition, this manual will aid residents in fulfilling the NRC requirements for licensure.

ABBREVIATED CONTENTS

CONTRIBUTORS

Charles T. Adams, Robert T. Anger, Nancy A. Clifton, Robert J. English, Casimir Eubig, Michael Freeman, Wanda M. Hibbard, Kenneth A. Holmes, Ronnie D. Jeffcoat, Judith E. Kosegi, Rebecca W. Lam, Sue P. Lance, Joan A. McKeown, Evelyn R. Merritt, Maria Nagel, James A. Ponto, John H. Powell, Raymond Wilemzick, James J. Wirrell

Softcover format, 8½ x 11", 163 pp. Publication date: July 1984

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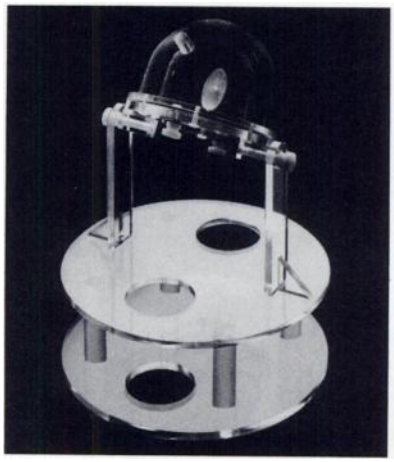
Teleradiology Image Display System



Redi-Vu Systems, a division of JD Technical Services, has introduced the Tele-Vu 5000, a scanner based, high resolution, teleradiology image display system. The Tele-Vu is both a transmit and receive system. At the transmit site, Tele-Vu can scan and send transparencies, documents and reports. Thus, a doctor who is not at the site can still offer patient diagnosis. The Tele-Vu 5000 is a flat-bed image scanner that not only scans x-ray films, but also can be converted into a conventional scanner capable of scanning documents. The scanner is based on a 32 bit, 80386 microprocessor operating at 25 MHz. The flat-bed image scanner used at the transmission site has selectable scan speeds of 75, 150 and 300 DPI. The scanner's software features include window/rubberbanding areas of interest, automatic data scaling, and 90° image rotation. The display features consist of rove, minification and magnifying glass, with brightness/contrast and background subtraction for enhanced images. Multiple images from one or more patient studies can be displayed simultaneously. The function keys have pre-programmed macros, which allow operations to be executed with a single keystroke, and the user interface is controlled by an optical mouse. Data can be accessed from multiple sources with video capture and the built-in transmission software allows 2.5:1 data compression with zero data loss. The scanner can also function as a high performance computer, for word processing and accounting applications. **Redi-Vu Systems, 2455-G Autumnvale Drive, San Jose, CA 95131. Attn: Jerry Pepmueller. (408) 263-9963.**

Circle Reader Service No. 101

Radionuclide Generator

Robert Atcher of Chicago, IL and John Hines of Glen Ellyn, IL, both researchers at Argonne National Laboratory, have devised a radionuclide generator that produces isotopes, which can be used in cancer therapy or for suppressing organ transplant rejection. Because the isotopes used in nuclear medicine will be placed inside the body, their half-life should be no longer than needed to kill cancer cells, usually only a few hours. However, there are only a few of the large, expensive cyclotrons needed to produce these isotopes. If the nearest device is many hours away, the isotope will become ineffective by the time it arrives at its destination. Atcher and Hines' radionuclide generator uses a super-strength resin to trap relatively stable radium-224 inside a lead capsule, which is then shipped to its destination. En route, some of the radium decays into short-lived bismuth-212, which can be removed from the resin with an acid solution and used in cancer therapy. The capsule can be "milked" of bismuth several times a day for about a week, according to Hines, assuring a full-strength dose of the isotope every time. For more information, contact: **Argonne National Laboratory, Chemical Division, Bldg. 211, 9700 South Cass. Ave., Argonne, IL 60439. Attn: Bob Atcher, Group Leader, Nuclear Medicine Research. (312) 972-6728.**

Circle Reader Service No. 102

Cardiac Insert

Nuclear Associates, a division of Victoreen, Inc., has developed the Cardiac Phantom Insert, which can be used with the PET/SPECT Performance Phantom source tank to realistically mimic the human heart for thallium-201 tests. The "heart" has a hollow wall into which any of eight "defects" can be inserted. The wall is then filled with a solution containing thallium-201, or any other isotope, and the insert is placed within the source tank, which is filled with a less concentrated "background" solution. The eight plastic "defects" are of various sizes and shapes, and when placed within the "heart wall," they cause "cold" spots, just as cardiac infarcts would do. The Cardiac Insert is supported on plastic rods, to allow the entire unit to swivel a full 360°, or be rotated to any desired angle, assuming any desired position or attitude. The resulting images will be equivalent to those obtained during normal patient imaging. The "heart" is approximately 8cm diameter by 8cm high, and the "hollow" wall is 1½cm thick. The Insert is made of acrylic and its sections are sealed with "O" rings to prevent leaking. The eight movable defects include four which are round, ranging in diameter from 5mm to 20mm, and four which are elliptical, ranging in size from 5×10mm to 2×4cm. The overall size of the Insert is 8″ diameter by 6″ to 10″ high. **Nuclear Associates, A Division of Victoreen, Inc., 100 Voice Rd., Carle Place, NY 11514. Attn: M. Ratner. (516) 741-2166.**

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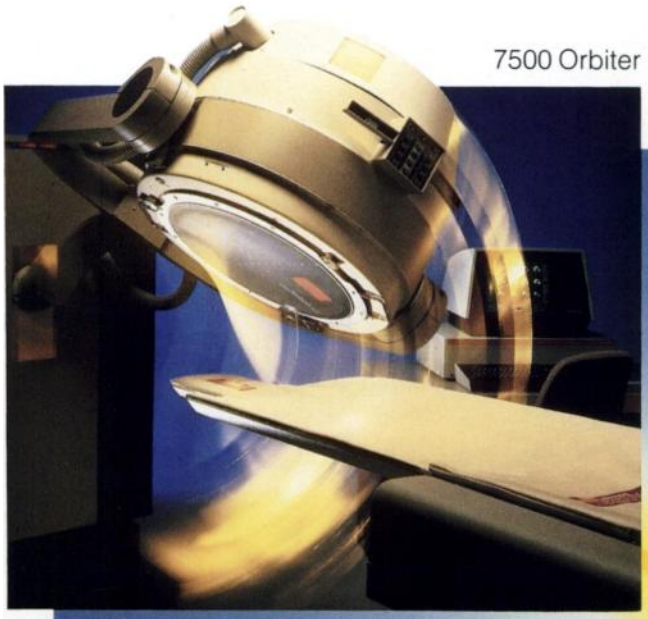

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Please see brief summary of prescribing information at right.

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For complete product information consult package insert, a brief summary of which follows:

DIAGNOSTIC – FOR INTRAVENOUS USE

DESCRIPTION: Each kit contains sterile, pyrogen-free, nonradioactive ingredients necessary to produce Technetium Tc 99m Pentetate Injection for diagnostic use by intravenous injection.

Each 10 ml reaction vial contains, in lyophilized form and under nitrogen atmosphere, 5 mg of Pentetate Pentasodium, and 0.17 mg (minimum) stannous chloride (maximum stannous and stannic chloride 0.275 mg). The pH is adjusted to 4.0 to 7.5 with hydrochloric acid and sodium hydroxide prior to lyophilization. The addition of sterile, pyrogen-free and oxidant-free Sodium Pertechnetate Tc 99m Injection produces Technetium Tc 99m Pentetate Injection, which contains no bacteriostatic preservative.

The chemical names for Technetium Tc 99m Pentetate Injection are: 1. Technetate (1-) ^{99m}Tc, [N, N-bis [2-[bis (carboxymethyl) amino] ethyl] glycinato (5-)]-, sodium; and 2. Sodium [N, N-bis [2-[bis (carboxymethyl) amino] ethyl] glycinato (5-)] - technetate (1-) ^{99m}Tc.

INDICATIONS AND USAGE: Technetium Tc 99m Pentetate Injection may be used to perform kidney imaging, brain imaging, to assess renal perfusion, and to estimate glomerular filtration rate.

CONTRAINDICATIONS: None known.

WARNINGS: None

PRECAUTIONS:

General

The contents of this kit are not radioactive. However, after Sodium Pertechnetate Tc 99m Injection is added, adequate shielding of the final preparation must be maintained.

The contents of the reaction vial are intended only for use in the preparation of Technetium Tc 99m Pentetate Injection and are NOT to be directly administered to the patient.

The image quality may be adversely affected by impaired renal function.

Literature reports indicate that the target to non-target ratio for intracranial lesions may take several hours to develop fully, and the possibility of missing certain lesions when imaging is restricted to the early period after injection should be borne in mind.

To minimize radiation dose to the bladder, the patient should be encouraged to increase his fluid intake, and to void when the examination is completed and as often thereafter as possible for the next 4-6 hours.

Technetium Tc 99m Pentetate Injection should be formulated within six (6) hours prior to clinical use for brain and kidney imaging, and for assessing renal perfusion. For optimal results this time should be minimized. Intervals longer than one hour should be the exception.

Technetium Tc 99m Pentetate Injection for use in estimating glomerular filtration rate should be formulated within one (1) hour prior to clinical use.

The components of the kit are supplied sterile and pyrogen-free. Aseptic procedures normally employed in making additions and withdrawals from sterile, pyrogen-free containers should be used during the addition of the pertechnetate solution and the withdrawal of doses for patient administration.

The Technetium Tc 99m labeling reactions involved in preparing the agent depend on maintaining the stannous ion in the reduced state. Any oxidant present in the sodium pertechnetate Tc 99m supply may thus adversely affect the quality of the radiopharmaceutical. Hence, sodium pertechnetate Tc 99m containing oxidants should not be employed.

Technetium Tc 99m Pentetate Injection as well as other radioactive drugs must be handled with care and appropriate safety measures should be used to minimize external radiation exposure to clinical personnel. Also, care should be taken to minimize radiation exposure to patients consistent with proper patient management.

Radiopharmaceuticals should be used only by physicians who are qualified by training and experience in the safe use and handling of radionuclides and whose experience and training have been approved by the appropriate government agency authorized to license the use of radionuclides.

High background counts, poor images and erroneous clearance results have been observed with the use of vials exceeding expiration time, owing to inadequate labeling. The vials should not be used after the expiration date shown on the label.

Carcinogenesis, Mutagenesis, Impairment of Fertility

No long-term animal studies have been performed to evaluate carcinogenic potential, mutagenic potential, or whether Technetium Tc 99m Pentetate Injection affects fertility in males or females.

Pregnancy Category C

Animal reproduction and teratogenecity studies have not been conducted with Technetium Tc 99m Pentetate Injection. It is also not known whether Technetium Tc 99m Pentetate Injection can cause fetal harm when administered to a pregnant woman or can affect reproductive capacity. There have been no studies in pregnant women. Technetium Tc 99m Pentetate Injection should be given to a preganant woman only if clearly needed.

Ideally, examinations using radiopharmaceuticals, especially those elective in nature, of a woman of childbearing capability should be performed during the first few (approximately 10) days following the onset of menses.

Nursing Mothers

Technetium Tc 99m is excreted in human milk during lactation. Therefore, formula feedings should be substituted for breast feedings.

Pediatric Use

Safety and effectiveness in children have not been established.

ADVERSE REACTIONS: Pyrogenic and allergic reactions to preparations of Technetium Tc 99m Pentetate Injection have been reported in the literature.

HOW SUPPLIED:

Kit Contents

10 STERILE REACTION VIALS (10 cc. silver aluminum overseal), each containing, in lyophilized form and under nitrogen atmosphere, 5 mg of Pentetate Pentasodium, and 0.17 mg (minimum) stannous chloride (maximum stannous and stannic chloride 0.275 mg). Hydrochloric acid and sodium hydroxide have been added for pH adjustment prior to lyophilization.

20 PRESSURE-SENSITIVE LABELS for final preparation of Technetium Tc 99m Pentetate Injection.

1 PACKAGE INSERT

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