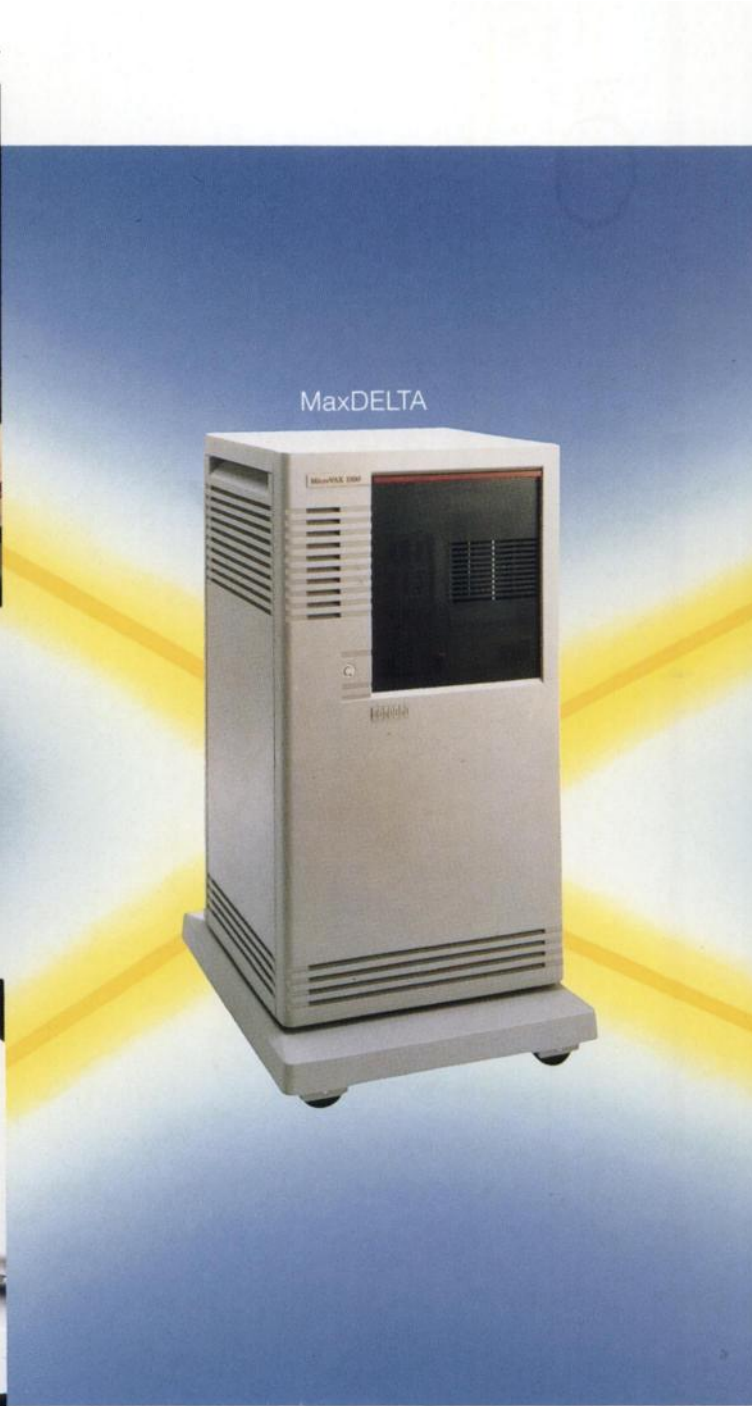
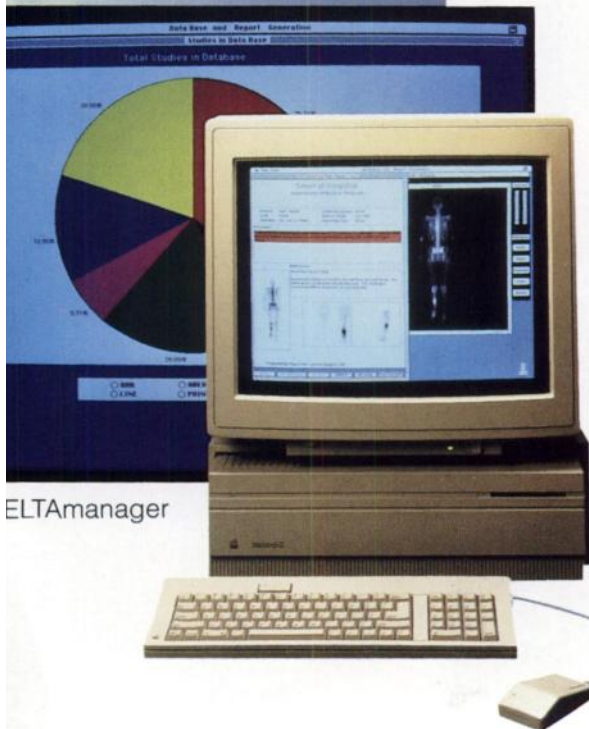


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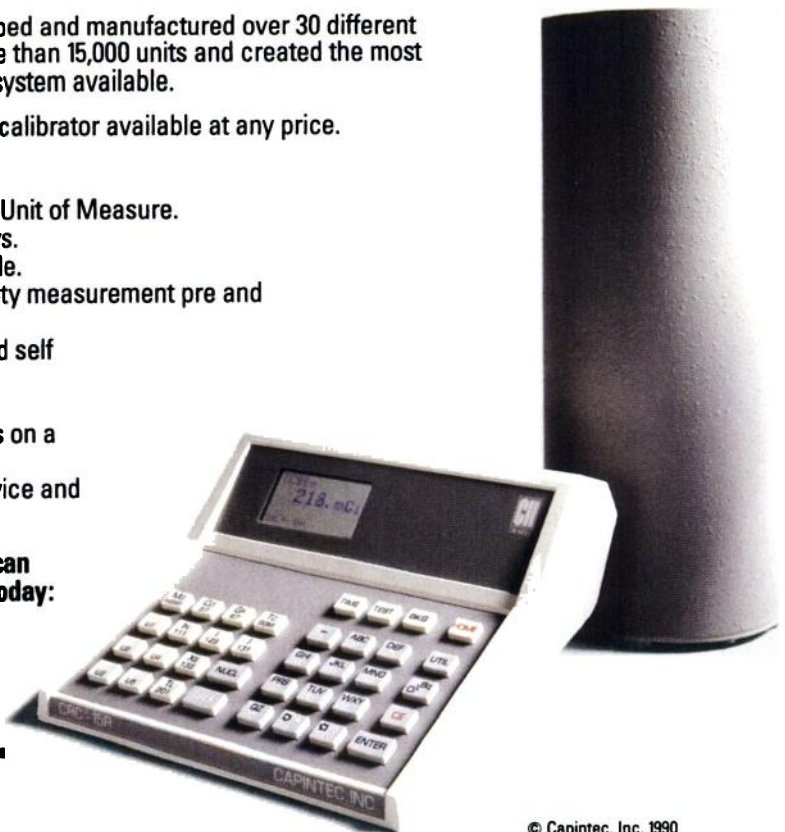
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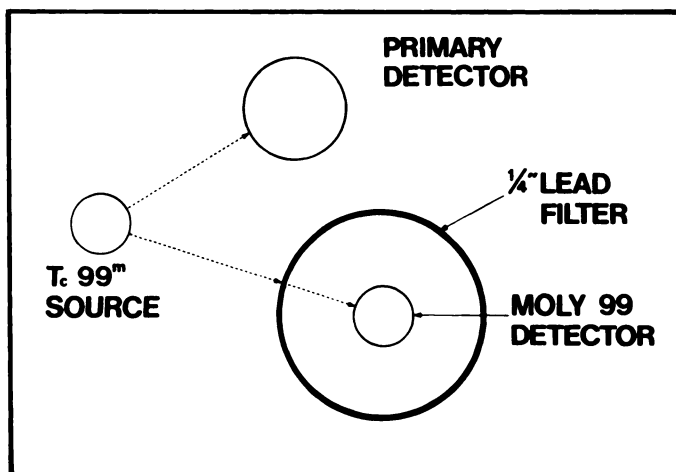
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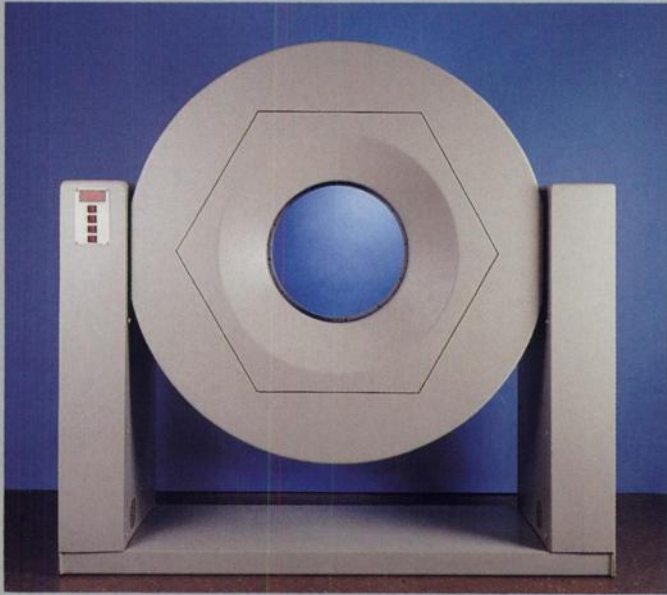
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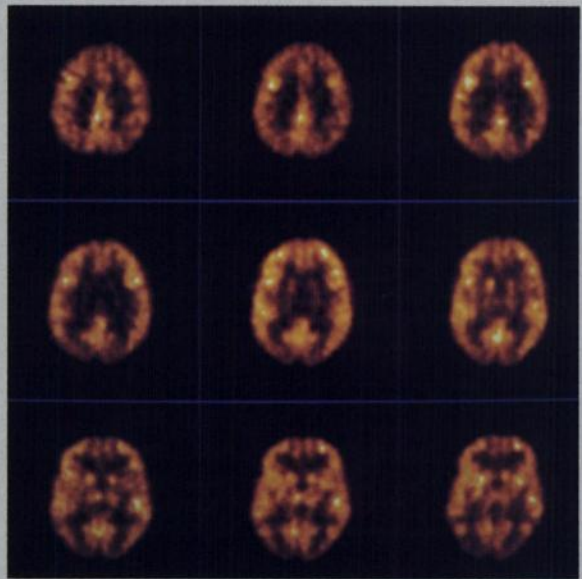


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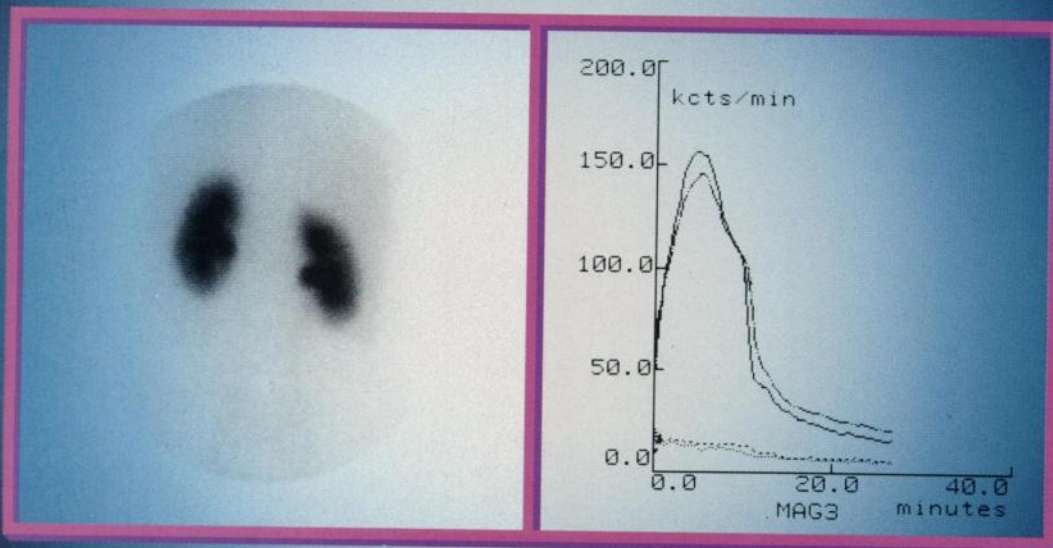
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As a technetium-labeled agent, TECHNESCAN MAG3™ offers key advantages over I-123 OIH or I-131 OIH. These include ready availability in cold-kit form, much shorter half-life (6.02 hours, vs 13.13 hours for I-123 and 8.04 days for I-131), and

lower radiation dose per mCi administered. (Total body absorbed dose [rad/mCi]: Tc99m = 0.0027, I-131 = 0.039, I-123 = 0.023.) The typical dose of TECHNESCAN MAG3™ required in renal function and imaging studies is 5 to 10 mCi.

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If you've been looking for a renal imaging agent that combines the safety and convenience of technetium with the physiological properties of iodohippurate, TECHNESCAN MAG3™ is for you. No other renal agent can match its versatility.

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Kit for the Preparation of Technetium Tc99m Mertiatide

Circle Reader Service No. 43

Please see the following page for references and brief summary of prescribing information.

L I N C K R O D T



# TECHNESCAN MAG3™

## Kit for the Preparation of Technetium Tc99m Mertiattide

### INDICATIONS AND USAGE

Technetium Tc 99m mertiattide is a renal imaging agent. In addition, it is a diagnostic aid in providing renal function, split function, renal angiograms and renogram curves for whole kidney and renal cortex.

**CONTRAINDICATIONS** None known.

**WARNINGS** None known.

### PRECAUTIONS

#### General

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

Contents of the reaction vial are intended only for use in the preparation of technetium Tc 99m mertiattide and are NOT to be administered directly to the patient.

To help reduce the radiation dose to the bladder, as well as other target organs, the patient should increase his or her fluid intake (unless medically contraindicated) and void as often as possible after the injection of technetium Tc 99m mertiattide for six hours after the imaging procedure.

Technetium Tc 99m mertiattide should not be used more than six hours after preparation.

The components of the kit are sterile and nonpyrogenic. It is essential that the user follow the directions carefully and use aseptic procedures normally employed in making additions and withdrawals from sterile, nonpyrogenic containers during the addition of pertechnetate solution and the withdrawal of doses for patient administration.

The technetium Tc 99m labeling reactions involved in preparing Technescan MAG3™ depend on maintaining the stannous ion in the reduced state. Any oxidant present in the sodium pertechnetate Tc 99m may adversely affect the quality of the radiopharmaceutical. Therefore, sodium pertechnetate Tc 99m containing oxidants should not be employed.

As in the use of any other radioactive material, care should be taken to insure minimum radiation exposure to the patient and to occupational workers.

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

**Carcinogenesis, Mutagenesis, Impairment of Fertility** No long term animal studies have been performed to evaluate carcinogenic or mutagenic potential, or whether this drug affects fertility in males or females.

**Pregnancy Category C** Animal reproduction studies have not been conducted with technetium Tc 99m mertiattide. It is also not known whether this drug can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Technetium Tc 99m mertiattide should be given to a pregnant 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 feeding.

**Pediatric Use** Safety and effectiveness in children have not been established.

**ADVERSE REACTIONS** None known.

**RADIATION DOSIMETRY** The estimated radiation doses<sup>1</sup> to the average adult (70 kg) from an intravenous administration of 185 MBq (5 mCi) and 370 MBq (10 mCi) technetium Tc 99m mertiattide are presented in Table 1. These radiation absorbed dose values were calculated using the Medical Internal Radiation Dose Committee (MIRD) Schema.

Table 1

Organ	ESTIMATED ABSORBED RADIATION DOSES*			
	Technetium Tc 99m Mertiattide			
	mGy/ 185 MBq	(rads/ 5 mCi)	mGy/ 370 MBq	(rads/ 10 mCi)
Urinary Bladder Wall	24	2.4	48	4.8
Upper Large Intestine Wall	0.94	0.094	1.9	0.19
Gallbladder Wall	0.81	0.081	1.6	0.16
Lower Large Intestine Wall	1.6	0.16	3.3	0.33
Kidneys	0.72	0.072	1.4	0.14
Small Intestine	0.81	0.081	1.6	0.16
Ovaries	1.3	0.13	2.6	0.26
Liver	0.18	0.018	0.36	0.036
Red Marrow	0.24	0.024	0.48	0.048
Testes	0.81	0.081	1.6	0.16
Total Body	0.33	0.033	0.67	0.067

\*Assuming patient voids at 4.8 hour intervals

<sup>1</sup>Oak Ridge Associated Universities, Oak Ridge, Tennessee

#### References:

- Taylor A Jr, Eshima D, Christian PE, Milton W. Evaluation of Tc-99m mercaptoacetyltryglycine in patients with impaired renal function. *Radiology*. 1987;162:365-370.
- Ducrot RP, Boudreau RJ, Gonzalez R, et al. Clinical efficacy of 99m technetium mercaptoacetyltryglycine kit formulation in routine renal scintigraphy. *J Urol*. 1989;142:19-22.



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## CALL FOR ABSTRACTS FOR SCIENTIFIC PAPERS AND SCIENTIFIC EXHIBITS



The Society of  
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38th  
Annual Meeting  
Tuesday, June 11-  
Friday, June 14,  
1991

Cincinnati, OH  
Cincinnati  
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Center

The 1991 Scientific Program Committee, Scientific Exhibits Subcommittee, and the Scientific & Teaching Sessions Committee solicit the submission of abstracts from members and nonmembers of The Society of Nuclear Medicine for the 38th Annual Meeting in Cincinnati, OH. Abstracts accepted for the program will be published in a special supplement to the May issue of *The Journal of Nuclear Medicine* and accepted Technologist Section abstracts will be published in the June 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
  - 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 for immediate review to the *JNM*, and for the technologist section, to the *JNMT*.

**Deadline for receipt of abstracts for Scientific Papers is Tuesday, January 8, 1991.**

**Deadline for receipt of abstracts for Scientific Exhibits is Tuesday, January 15, 1991.**

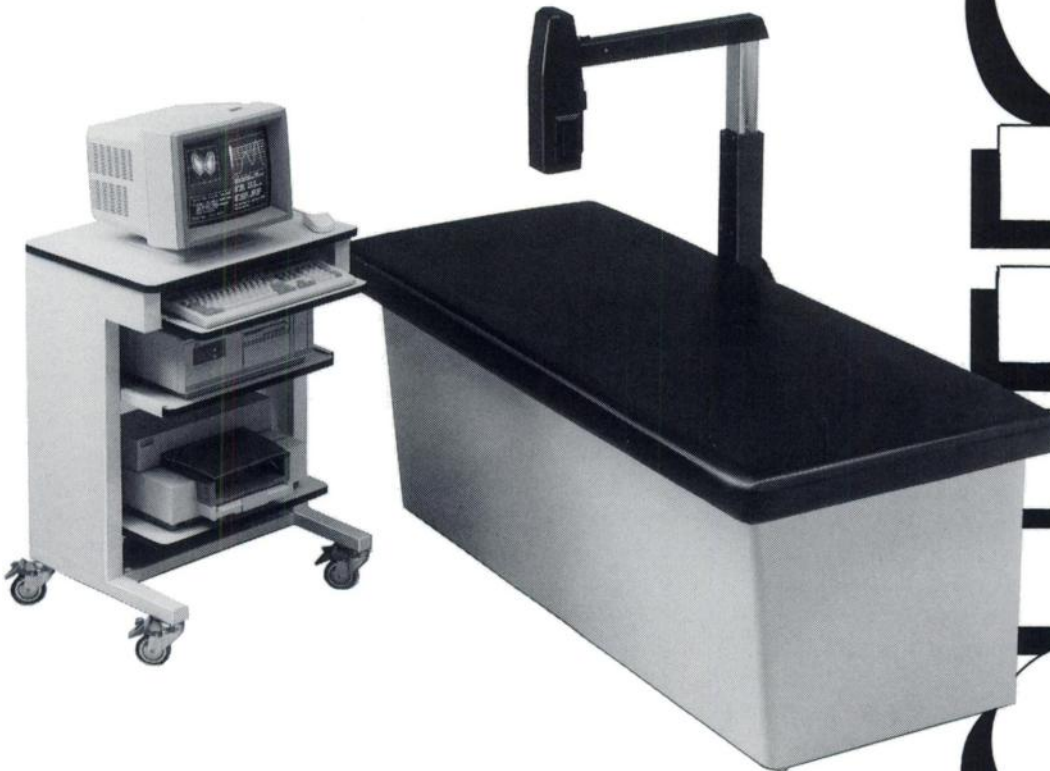
The official abstract form may be obtained from the October 1990 issue of the *JNM* or by calling or writing:

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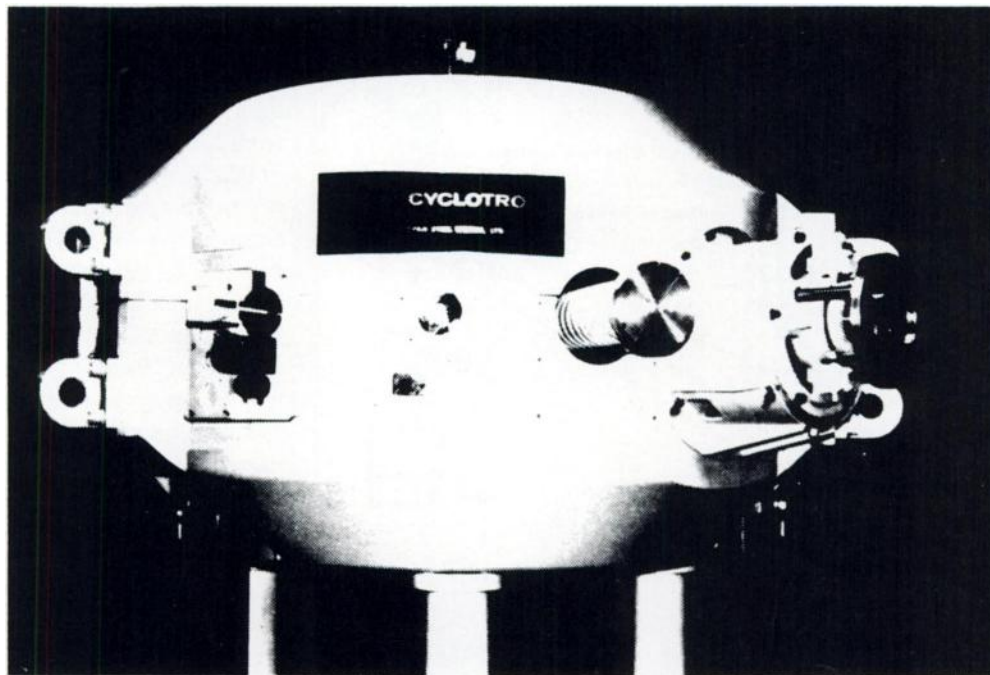
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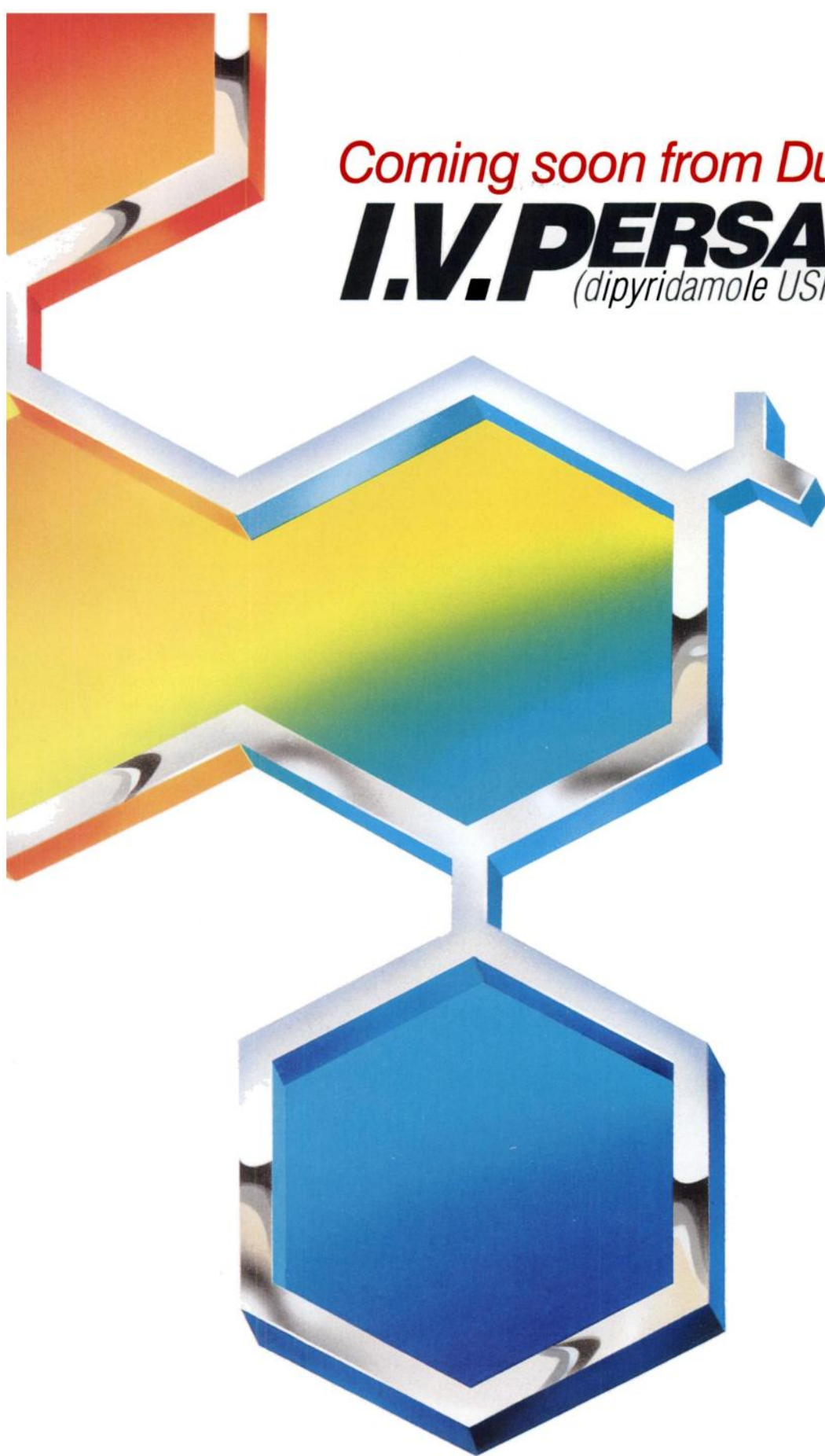


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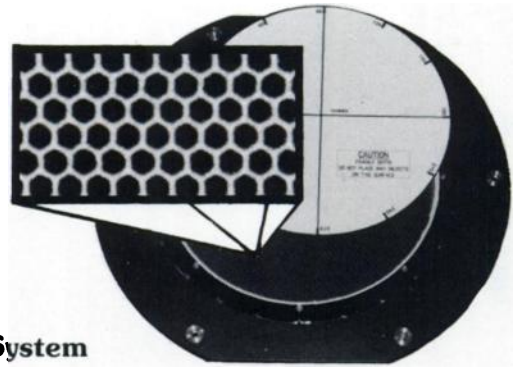
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## THE SOCIETY OF NUCLEAR MEDICINE MID-WINTER MEETING

**Title:** New Horizons in SPECT, PET and Computers

**Location:** Hyatt Regency Westshore, Tampa, Florida

**Date:** Monday-Tuesday, February 4-5, 1991

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ALL PRE-REGISTRATIONS MUST BE RECEIVED BY JANUARY 18, 1991

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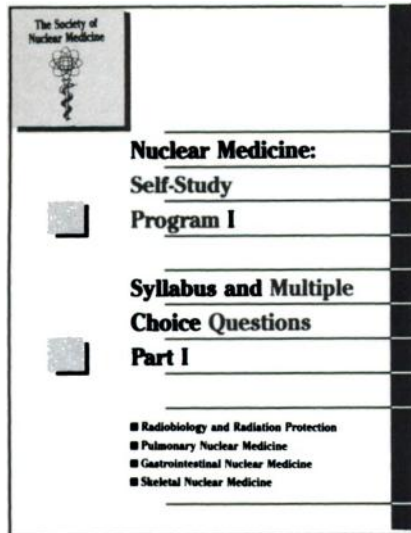
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# Nuclear Medicine: Self-Study Program I



## NUCLEAR MEDICINE: SELF-STUDY PROGRAM I

Edited by Barry A. Siegel, MD,  
and Peter T. Kirchner, MD

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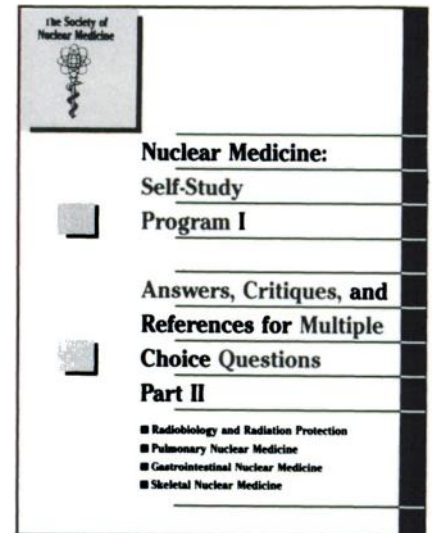
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Contributing Authors: Susan Gilbert, Adrian D. LeBlanc, Robert Schleipman, James E. Silvers, Donald E. Widmann, Brenda Woods.

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## Positions Available

### Fellowship

**FELLOWSHIP** in nuclear medicine, University of Missouri-Columbia. Clinical and research fellowship in nuclear medicine starting July 1, 1991. 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 hospitals, 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 Drive, Columbia, MO 65212. (314) 443-2511, ext. 6675. EOE.

**FELLOWSHIP** in BRAIN SPECT IMAGING—The Department of Radiology at the Brigham and Women's Hospital/Harvard Medical School, has an opening for one year fellowship, and an optional second year, in brain SPECT imaging. The department has a dedicated system for brain imaging and four rotating-head GE units. The department does approximately 1,000 brain SPECT examinations per year, including perfusion, tumor seeking, and blood pool studies. Ongoing research areas include dementia, substance abuse, tumor detection and therapy, and cerebrovascular disease. Please send curriculum vitae to: B. Leonard Holman, MD, Chairman, Department of Radiology, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. Brigham and Women's Hospital/Harvard Medical School is an affirmative action/equal opportunity educator and employer.

**RESEARCH/NUCLEAR CARDIOLOGY FELLOWSHIP** available. Must have two or more years of clinical cardiology fellowship completed. Fellowship is for two years. Provides training in nuclear cardiology, sufficient for nuclear licensure, involving experience in all current clinical and several investigational

modalities. Provides specific didactic training in research methodology with research/publication experience in clinical and preclinical areas of coronary artery disease, valvular disease and heart failure. Send CV to: Jeffrey S. Borer, MD, Director, Nuclear Cardiology, Cornell University Medical Center, 525 E. 68th St., Room F467, New York, NY 10021. EOE, AA, M/F/H/V.

### Pharmacist

New England Medical Center Hospital, a 480-bed teaching hospital affiliated with Tufts University, is accepting applications for a full-time NUCLEAR PHARMACIST. A Masters Degree in Nuclear Pharmacy and a minimum of 3 years clinical experience in Nuclear Medicine are required. Responsibilities include clinical activities, a broad array of research activities and ongoing education of radiology technologists, residents and fellows. Interested applicants should send a current curriculum vitae and salary history to Russell Soule, Administrative Manager, Department of Radiology, NEMCH Box 380, New England Medical Center, 750 Washington Street, Boston, MA 02111. No phone calls please. We are an equal opportunity employer.

### Physician

**NUCLEAR MEDICINE STAFF POSITION.** Candidate with strong interest in research and academic career to join an active and well-equipped nuclear medicine laboratory. Excellent research and clinical facilities are available and include PET and SPECT. Candidates must be board eligible as certified in nuclear medicine. For further information, please contact Abass Alavi, MD, Chief, Division of Nuclear Medicine, Hospital of the University of Pennsylvania, 3400 Spruce St., Philadelphia, PA 19104. EOE.

**NUCLEAR MEDICINE PHYSICIAN.** The Permanente Medical Group's Santa Clara facility is currently seeking a Nuclear Medicine Physician for this full-time position to join our staff of two MDs. Our teaching hospital has academic affiliation with Stanford University, and is active in SPECT. We require experience in thyroid disease. For more information, call Norton Snyder, MD at (408) 236-4590 or send your CV to Kaiser Foundation Hospital, 900 Kiely Blvd., Santa Clara, CA 95051. EOE.

**NUCLEAR MEDICINE PHYSICIAN.** Position immediately available for BC (ABNM or ABR/NR) physician in active nuclear medicine department located in a large tertiary care hospital with active cardiac program. Virtually all new imaging equipment and computers, including three SPECT cameras. Beautiful area in which to live. Applicants should send CV and references to: Gary F. Gates, MD, Director of Nuclear Medicine Dept., St. Vincent Hospital & Medical Center, 9205 SW Barnes Rd., Portland, Oregon 97225.

**NUCLEAR MEDICINE DIRECTOR**—Roswell Park Cancer Institute is seeking a Director of Nuclear Medicine with interests in the clinical and research aspects of multimodality cancer imaging and immunodiagnosis. The modernization of the entire Radiology and Nuclear Medicine Departments includes plans for Positron Emission Tomography in conjunction with MRI and Spectroscopy. Potential for clinical interaction is excellent. Roswell is an NCI designated comprehensive cancer center and is currently entering a period of renewed growth in its physical facility and programs. Opportunities for research and academic activity are outstanding. A candidate must qualify for a faculty appointment at the professor level in the School of Medicine and Biomedical Sciences, SUNY at Buffalo. Curriculum vitae should be submitted to: Nicholas J. Petrelli, MD, Associate Chief, Department of Surgical Oncology, Roswell Park Cancer Institute, Elm and Carlton Streets, Buffalo, New York 14263. Roswell Park is an Affirmative Action/Equal Opportunity Employer.

**NUCLEAR MEDICINE PHYSICIAN.** Progressive seven-man group seeks to add a Nuclear Medicine (special competency preferred) fellowship-trained Radiologist for Spring 1991. This busy expanding practice is hospital- and recently full-service imaging center-based. Both institutions use leading edge technology. The proximity of Lake Tahoe, the gaming in-

dustry, the state capitol and a major university provides many cultural, entertainment, and sporting opportunities. Send CV to Colby Laughlin, MD, Reno Diagnostic Center, 590 Eureka Avenue, Reno, NV 89512.

Applications are invited from medical practitioners registerable in Victoria for the position of DIRECTOR, DEPARTMENT OF NUCLEAR MEDICINE. Applicants will hold the FRACP or equivalent qualification and be eligible for membership in the Australian and New Zealand Association of Physicians in Nuclear Medicine. St. Vincent's Hospital is a 590-bed teaching hospital affiliated with the University of Melbourne. The Hospital is located close to the city of Melbourne and provides a wide range of general and specialty medical and surgical services. The appointee will be responsible for the operation of the Nuclear Medicine Department, which is comprehensively equipped and staffed and carries out a wide range of diagnostic and therapeutic tests, including diagnostic ultrasound. This is a Class 4 appointment under the Award of the Hospitals' Remuneration Tribunal for Hospital Specialists and Medical Administrators. The appointment in the first instance will be for the balance of a five-year period ending on January 31, 1995. The conditions of appointment include five weeks annual leave, cumulative sick leave, two weeks conference leave each year, an entitlement to sabbatical leave after six years continuous service and an entitlement to long-service leave. Superannuation benefits are available. The current salary is \$1,366.50 per week plus 10% on-call and 10% availability allowances. The right of private practice up to a maximum of 25% of salary may be granted in accordance with the directions of the Health Department Victoria. A memorandum of information and further details may be obtained from the Director of Medical Services, Dr. J.J. Griffin, telephone (613) 418-2009. Application forms are available from the Chief Executive Office and should include details of training, experience and the name of three references. The closing date for applications is January 25, 1991. A.H. Campbell, Acting Chief Executive Officer, St. Vincent's Hospital, 41 Victoria Parade, Fitzroy, Victoria, 3065, Australia.

### Physicist

**NUCLEAR MEDICINE PHYSICIST** position available in the Department of Radiology at Henry Ford Hospital for board certified or board eligible candidates. PhD is preferred. Strong computer software background and programming skills desired in this expanding Nuclear Medicine Division with seven cameras and nine computers. Position involves physics support of clinical activities including quality control and the teaching of Radiology and Nuclear Medicine residents and fellows. Very good opportunities exist for independent research activities. Applicants should submit CV to Dr. K.C. Karvelis, Director, Division of Nuclear Medicine, Henry Ford Hospital, 2799 W. Grand Boulevard, Detroit, MI 48202 or fax: (313) 876-2018. Henry Ford Hospital is an equal opportunity employer.

### Resident

**NUCLEAR MEDICINE RESIDENCY.** July 1991. 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.

**NUCLEAR MEDICINE RESIDENTS,** July 1991. 2-year program includes didactic, practical and clinical training in basic science, general nuclear imaging, nuclear cardiology and RIA at 1,300-bed hospital center. Research encouraged. Two active emergency centers, mobile cameras, and coronary and intensive care units adjacent to SPECT facility. Contact: E. Gordon DePuey, MD, Director of Nuclear Medicine, St. Luke's-Roosevelt Hospital Center, Amsterdam Avenue at 114th Street, New York, NY 10025.



### Technologist

**RADIOLOGIC TECHNOLOGISTS.** Valley Hospital Medical Center, a 310-bed acute care facility located in Las Vegas, Nevada, is currently recruiting Radiologic Technologists. Candidates must be registered or registry eligible with Nuclear Med registration or experience desirable. Southern Nevada is progressive and growing and Valley Hospital offers a competitive salary and benefit package. Contact: Personnel Department, Valley Hospital Medical Center, 620 Shadow Lane, Las Vegas, NV 89106. (800) 266-4566.

**NUCLEAR MEDICINE TECHNOLOGIST.** Immediate, full-time staff position available for Registered NMT with minimum 2 years experience, for busy, 40-physician, multi-specialty medical group in Honolulu. Competitive salary and liberal benefits package. Send resume to: The Honolulu Medical Group, 550 S. Beretania Street, Honolulu, Hawaii 96813, Attn: Personnel. EOE.

**NUCLEAR MEDICINE TECHNOLOGIST:** The Nuclear Medicine Department of Salem Hospital, a 454-bed acute care regional medical center has an immediate opening for a full-time Nuclear Medicine Technologist. Position is full-time day shift, Monday through Friday with call every 4th weekend. Candidates should be registered with NMTCB. Also ARRT or ASCT. State-of-the-art nuclear medicine equipment including 4 gamma cameras (#2 SPECT) with an integrated computer network. We offer a competitive salary and an excellent benefit package. Interview and relocation assistance available. Please submit confidential resume or call collect to: Marlene Mairs, Employ-

ment Assistant (503) 370-5184, 8 A.M. -4 P.M., Monday through Friday; 665 Winter St., SE, (P.O. Box 14001) Salem, Oregon 97309-5014. EOE.

**NUCLEAR MEDICINE TECHNOLOGIST.** Full-time technologist needed for a progressive and growing hospital in eastern North Carolina. Experience preferred. ARRT or NMTCB registration required. Position is available immediately. Sign-on Bonus and a Relocation Allowance are among the many benefits offered by Wayne Memorial Hospital, P.O. Box 8001, Goldsboro, NC 27533. Contact: Chuck Smith, Special Imaging Supervisor, (919) 731-6013. EOE.

**NUCLEAR MEDICINE TECHNOLOGIST.** A vacancy exists at the VA Medical Center, Biloxi, MS for nuclear medicine technologist, register/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 Francine Wolpe, MD, Chief, Nuclear Medicine Service, VA Medical Center, Pass Road, Biloxi, MS, 39531. (601) 388-5541, ext 5129. The VA is an equal opportunity employer.

**NUCLEAR MEDICINE TECHNOLOGIST:** The Mallinckrodt Institute of Radiology at Washington University Medical Center, St. Louis, MO, has an immediate opening for a F/T registered or registry eligible technologist. Progressive department with excellent benefit package. Interested applicants call Kathleen Johnson-Brunsdon at (314) 362-2810. Affirmative Action/Equal Opportunity Employer. M/F/H/V.

**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 department 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 Siemens 7500 ZLC SPECT unit and MicroVax Computer System. The Federal Government offers excellent fringe benefits and competitive salaries. Send resume to: Pete Rudolph, Personnel Management Specialist (05-1), VA Medical Center, 1900 E. Main Street, Danville, IL 61832. (217) 442-8000, Ext. 5960. EOE.

### Equipment

For sale: Technicare 420/550, ADAC's vertical CDS, system I, system III, DPS 2800. We offer the highest prices for all types of nuclear medicine cameras & computers. Call Franklin at Imaging Solutions (415) 924-9155.

**BAIRD SYSTEM 77.** Working Baird system 77 with Ferkin-Elmer 5,000 frame disc drive, color monitor, mag. tape drive, bicycle ergometer, remote S/S pedals, handgrips, and injection platform. \$30K, including shipping. For further info. call Dr. Cerrone. (714) 841-6800.

# MALLINCKRODT FELLOWSHIP AWARD

Mallinckrodt, Inc. has announced an Annual Fellowship of \$30,000 for a physician fellow active in nuclear medicine research and/or development.

The award is to further a research and/or development project and applicants are asked to submit their curriculum vitae, a detailed account of their research project including prior accomplishments on the project, and future plans. This information, along with at least two letters supporting the application, should be forwarded to:

**William J. MacIntyre, PhD  
The Society of Nuclear Medicine  
136 Madison Avenue  
New York, NY 10016-6760**

The recipient will be announced at the Annual Meeting of The Society of Nuclear Medicine in Cincinnati, OH.

**DEADLINE FOR THIS YEAR'S AWARD IS JANUARY 18, 1991**

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Consider joining our team of professionals. Experience 1st pass techniques as well as gated SPECT with cardiolite and cardiotech. The candidate we seek will perform both exercise and pharmaceutical stress testing and will implement procedures with 3-headed spect instrumentation. Discover how thallium imaging can be used to assess tumor viability.

If you are an experienced nuclear medicine technologist, advance your career with us.

We have recently implemented a unique career ladder. Our technologists can advance through three levels. Advancement is based upon experience and expertise. Continuing Education for VOICE credits is held monthly at Cedars-Sinai Medical Center during working hours.

In addition to an opportunity to grow professionally in a stimulating environment, we offer a comprehensive benefits package including a choice of five medical plans, choice of three dental plans, two weeks vacation, eleven paid holidays (six national, five floating), 12 sick days per year, three sick-pay bonus programs, tuition aid, credit union, flexible spending account, employer paid life insurance, employee assistance program, employee discounts and activities.

Uniquely situated on L.A.'s west side, the Medical Center is within walking distance from several restaurants and an exclusive shopping mall.

Full time and per diem positions are available. For immediate consideration contact: **Lynne Roy, Cedars-Sinai Medical Center, Nuclear Medicine Department, 8700 Beverly Boulevard, Los Angeles, California 90048-1869. (213) 855-4216.**

## NUCLEAR MEDICINE SUPERVISOR

OUR LADY OF THE LAKE REGIONAL MEDICAL CENTER, located in Baton Rouge, LA, Louisiana's largest and finest acute-care facility, is currently in search of a Supervisor for our Nuclear Medicine Department. Duties include: Utilizing technical, educational and management skills to develop department & personnel to maximum potential, plans, organizes and schedules department operations and maintains open communication within department and other hospital areas.

Qualifications include: Current registry NMTCB or ARRT with LA state license. 5 years minimum experience in nuclear medicine. Bachelor's degree desirable.

We offer an outstanding salary and benefits package. Send confidential resumé to:

Dawn Abbott  
Human Resources Dept.  
**OUR LADY OF THE LAKE  
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5000 Hennessy Blvd.  
Baton Rouge, LA 70808  
(504) 765-8803



## NUCLEAR MED TECHNOLOGISTS

**Mercy** General Hospital is a 489-bed facility which offers comprehensive diagnostic and therapeutic services in our state-of-the-art Nuclear Medicine Department. Currently, we are seeking a **Senior Nuclear Medicine Technologist** and a **Nuclear Medicine Technologist II** to join our staff of dedicated professionals.

Both positions require current California state certification in all categories of nuclear medicine technology; NMTCB, ARRT-NM, ASCP-NM preferred. Candidates responding to our senior-level opening must also have 3 years experience in a staff position along with supervisory skills to direct and participate in departmental operations and decisions.

In addition to our prime residential location in beautiful Sacramento, we offer competitive salaries and benefits plus a transfer mobility program to over 100 Mercy system hospitals nationwide. For consideration, please send your resume, indicating position of interest, to: Mercy General Hospital, 4001 J Street, Dept. JNM, Sacramento, CA 95819, or call (800) 688-3834. We are proud to be an equal opportunity employer.

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## NUCLEAR MEDICINE TECHNICIANS

The Veterans Affairs Medical Center is a modern 700-bed teaching hospital affiliated with the University of California at San Diego with excellent opportunities for growth and development of clinical skills. Now offering one immediate full-time opening in nuclear medicine laboratory. ARRT or CNMT certified or certifiable preferred. This laboratory has new state-of-the-art instrumentation and is in process of installing a new computer network.

The city of San Diego has four major universities and several private and junior colleges of outstanding quality. The climate is sunny and mild, with an even temperature throughout the year; it is free of severe storms, snow and sleet. Camping, picnicking, hiking, riding and fishing are readily available in numerous scenic parks throughout the county. There are 70 miles of spectacular beaches. Within a relatively short distance, San Diego offers an unusual contrast in housing locations. Special salary rates commensurate with experience and education, plus an excellent benefits package. Must be U.S. citizen. For additional information, contact **Jan Bergan, Personnel Management Specialist, (619) 552-8585, ext. 3401.**



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In addition to competitive compensation, we provide comprehensive benefits for your personal security. Our environment features a modern fitness complex, and the city of Wichita has many attractions to make your life pleasant and entertaining. Our friendly community of 290,000 also has a variety of affordable housing options and ample employment opportunities for spouses.

For confidential consideration, send your resume to: Employment Director, HCA Wesley Medical Center, 515 North Holyoke, Wichita, KS 67208.

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The Veterans Administration/University of Minnesota PET Program is seeking an experienced, research-oriented radiochemist with proven expertise in synthetic organic chemistry. The successful applicant will join an established PET group working in a state-of-the-art facility in close proximity to the University of Minnesota. This position is ideally suited for an ambitious, career-oriented individual who wishes to maintain a university affiliation/ appointment. Competitive salary and benefits.

Send curriculum vitae and bibliography in confidence to:

David A. Rottenberg, M.D.  
Director, PET Imaging Service (11P)  
Veterans Administration Medical Center  
One Veterans Drive  
Minneapolis, MN 55417

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## Nuclear Medicine Technologist

The Cleveland Department of Veterans Affairs Medical Center (Wade Park) has an immediate full-time opening for a Nuclear Medicine Technologist in a large teaching hospital, with emphasis on nuclear imaging, especially cardiovascular studies. No radioimmunoassay procedures. Certification as a nuclear medicine technologist desirable.

The Department of Veterans Affairs offers many fringe benefits: 10 paid holidays, liberal vacations and unlimited sick leave accrual. The salary range for this position is \$24,705 - \$32,121.

Interested and qualified individuals should contact Mr. Thomas Claflin (216) 526-3030 ext. 7916 from 8:00A.M. to 4:30P.M.

The Department of Veterans Affairs is an Equal Opportunity Employer.

## NUCLEAR MEDICINE PHYSICIAN

Staff position for a board certified or board eligible Nuclear Medicine Physician. Experience in all aspects of Nuclear Medicine preferred. Highly competitive benefits package offered. Joint Medical School appointment possible with proven clinical and research record. Excellent opportunity in progressive, expanding service.

We are a 180-bed teaching hospital, currently constructing a clinical addition which will double facility size and increase beds to 250. Nuclear Medicine will be located within the addition.

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## TECHNOLOGIST JOB NETWORK

The New England Chapter-SNM/TS announces "The Job Hotline," a national toll-free, hotline for nuclear medicine. The hotline is designed to provide a quick link for technologists seeking jobs and for hospitals seeking technologists. Institutions seeking technologists should call the hotline number, leave the name of the institution, title of the job opening, and name and number of the contact person; data are then stored for three months in a database for anyone who calls the hotline seeking employment. Technologists seeking employment should call the hotline number, specify state(s) which are of interest, specify type of job desired, and leave name and address. A listing will then be sent out in 48 hours; all inquiries are kept confidential. If an opening has not been filled within three months, the institution should call again to have it listed. The institution should also call if an opening has been filled so that it can be deleted from the database. The hotline numbers are 1-800-562-6387 (1-800-JOB-NETS) or 1-990-4212 in Maine. Questions or comments should be directed to: Tom Staro, Manager, Job Hotline, New England Chapter-TS at (207) 945-7186.

The Mideastern Chapter-SNM/TS will provide a referral network for technologists seeking employment and for hospitals in need of technologists. Interested individuals should call Cathy Gonzalez at (301) 855-1712. Please leave your name, address, phone number and a brief description of your request.

**NOTE:** SNM chapters are invited to submit job referral service listings for publication. Pertinent information—name and brief description of the service, telephone number and/or address, name or number of contact person for inquiries—should be sent to:

Joan Hiam, Section Editor, JNM/JNMT The Society of Nuclear Medicine, 136 Madison Avenue New York, NY 10016-6760.

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### The following topics will be presented and discussed:

- Quality Assurance in Nuclear Medicine
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- Patient Information
- Efficacy and Cost Effectiveness
- Quality Control of Non Imaging and Imaging Instrumentation Including Computers, SPECT and PET
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### Workshops

- Patient Information and Decision Making
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- Cardiac Ejection Fraction and Ventricular Wall Motion
- SPECT (Cardiac)
- Proficiency Testing
- Pulmonary Studies
- Renal Function
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**Abstract Deadline:**  
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For further information or registration please contact:  
Danbury Hospital, Department of Public Relations (203) 797-7247.



# SPECT BRAIN IMAGING CLINICAL FELLOWSHIP

Department of Radiology  
Section of Nuclear Medicine



## **BENEFIT:**

This program is designed for nuclear medicine physicians, radiologists, technologists and referring physicians. It is intended to educate participants about the clinical utility of SPECT brain imaging with agents such as SPECTamine® and Ceretec®.

## Objectives include:

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- Knowledge of quality control techniques for SPECT.

## **SPONSORSHIP:**

This program is sponsored by the Medical College of Wisconsin.

## **TUITION:**

The tuition fee of \$650 includes the course syllabus, handouts, breaks, breakfasts, lunches, and other amenities involved in making this a pleasant learning experience. Maximum enrollments have been established. Cancellations prior to the course will be refunded, less a \$30 administrative fee.

## **CREDIT:**

The Medical College of Wisconsin is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

Accordingly, the Medical College of Wisconsin designates this continuing medical education activity as meeting the criteria for 13.00 hours in Category I toward the Physician's Recognition Award of the American Medical Association.

Nuclear Medicine Technologists who attend the SPECT Brain Imaging Clinical Fellowship are eligible for 1.0 VOICE credit.

Register me for the following dates: (Please indicate a second choice)

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Office Phone (\_\_\_\_\_) \_\_\_\_\_

\_\_\_\_\_ work address                      \_\_\_\_\_ home address

Registrations and payment should be sent to:

LisaAnn Trembath  
SPECT Brain Imaging Fellowship Coordinator  
Nuclear Medicine Division  
Medical College of Wisconsin  
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# SNM 38th Annual Meeting Critical Dates

ITEM	FORM INCLUDED IN JNM	DUE DATE
Abstract Form	October Issue	
Scientific Papers		1/08/91
Scientific Exhibits		1/15/91
Works-in-Progress		4/15/91
Registration Form	November Issue	5/17/91
Housing Form	November Issue	5/17/91

**DON'T FORGET THE MID-WINTER MEETING IN TAMPA, FL**

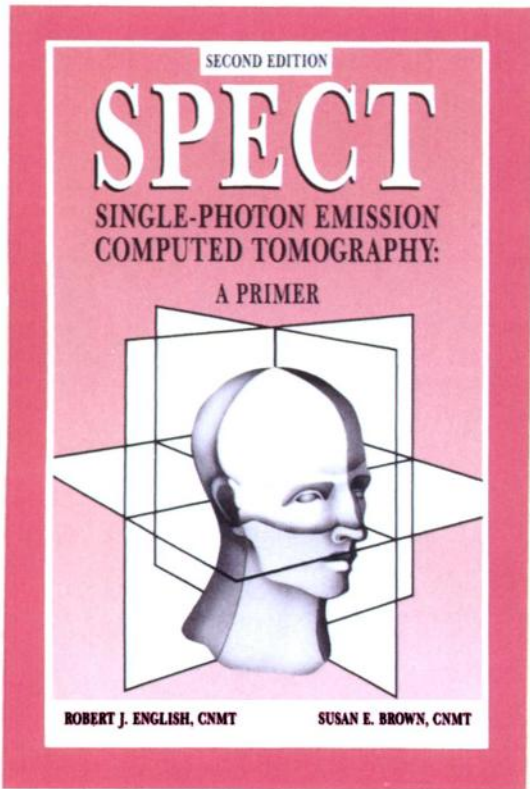
**SPONSOR:** The Computer and Instrumentation Council

**DATES:** February 4-5, 1991

**PLACE:** Hyatt Regency Westshore, Tampa, Florida



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# 2<sup>nd</sup> Edition

# SPECT

## Single-Photon Emission Computed Tomography

# A PRIMER

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**and Susan E. Brown, CNMT**

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**T**his new revised edition of the popular SPECT Primer integrates the newest SPECT techniques with the fundamental concepts and procedures presented in the first edition. The addition of clinical studies greatly enhances the value of this edition. The authors present procedures for routine and initial evaluation of a SPECT system as well as protocols for commonly imaged organ systems.

The protocols and procedures are deliberately presented in a generic fashion to offer the greatest flexibility to both the novice and the more experienced practitioner. Each chapter contains a summary of the covered topic, study questions, and a recommended reading list. This format ensures a thorough exposure to each topic and allows the reader to focus on areas of special interest.

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The Appendix has been updated

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# Fundamentals of Nuclear Medicine

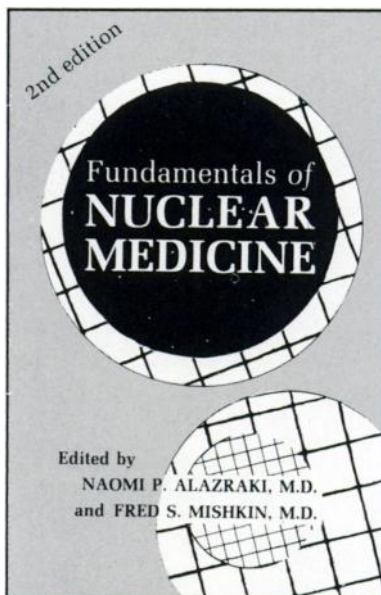
## 2nd Edition

Edited by  
**Naomi P. Alazraki, MD**  
and  
**Fred S. Mishkin, MD**

**Fundamentals of Nuclear Medicine, 2nd Edition**, provides physicians, physicians-in-training, scientists, and technologists with a comprehensive introduction to the basic principles of nuclear medicine, including the most recent advances in this fast-changing field.

Following the format of the acclaimed first edition, the editors have revised and expanded each chapter, adding major new sections on PET imaging, diagnostic decision making, parathyroid and adrenal imaging, and bone density measurement. In addition, several new scan images and graphs serve to illustrate the text.

**Fundamentals of Nuclear Medicine** fills the need for a current basic text to acquaint practitioners and students with the possibilities and limitations of nuclear medicine in detecting and evaluating common disorders. It is essential to all those who want an understanding of this rapidly evolving technology as it emerges from the investigative to the clinical stage.



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### Table of Contents

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Radiopharmaceuticals  
Imaging of Radiation
2. The Diagnostic Process and Nuclear Medicine  
Sensitivity, Specificity, and Predictive Value

#### Organ Imaging with Radionuclides

3. Endocrinology
4. Cardiovascular System
5. Pulmonary System and Thromboembolism
6. Liver and Gastrointestinal Tract
7. Biliary Tract
8. Genitourinary Tract
9. Skeletal System
10. Central Nervous System

#### Imaging Disease Process

11. Trauma
12. Inflammatory and Infectious Process
13. Cancer

#### Nonimaging Diagnostic Techniques

14. Nonimaging Procedures

#### Appendix

#### Glossary

#### Index

### To Order:

Single copies of *Fundamentals of Nuclear Medicine*, 2nd Edition, are available for \$15.00 plus \$2.50 postage and handling for each book ordered. Payment must be made in U.S. funds drawn on U.S. banks only. For payment made in U.S. funds, but drawn on a foreign bank, add a bank processing fee of \$4.50 for Canadian bank drafts or \$40.00 for all other foreign bank drafts. Check or purchase order must accompany all orders. Make checks payable to: The Society of Nuclear Medicine.

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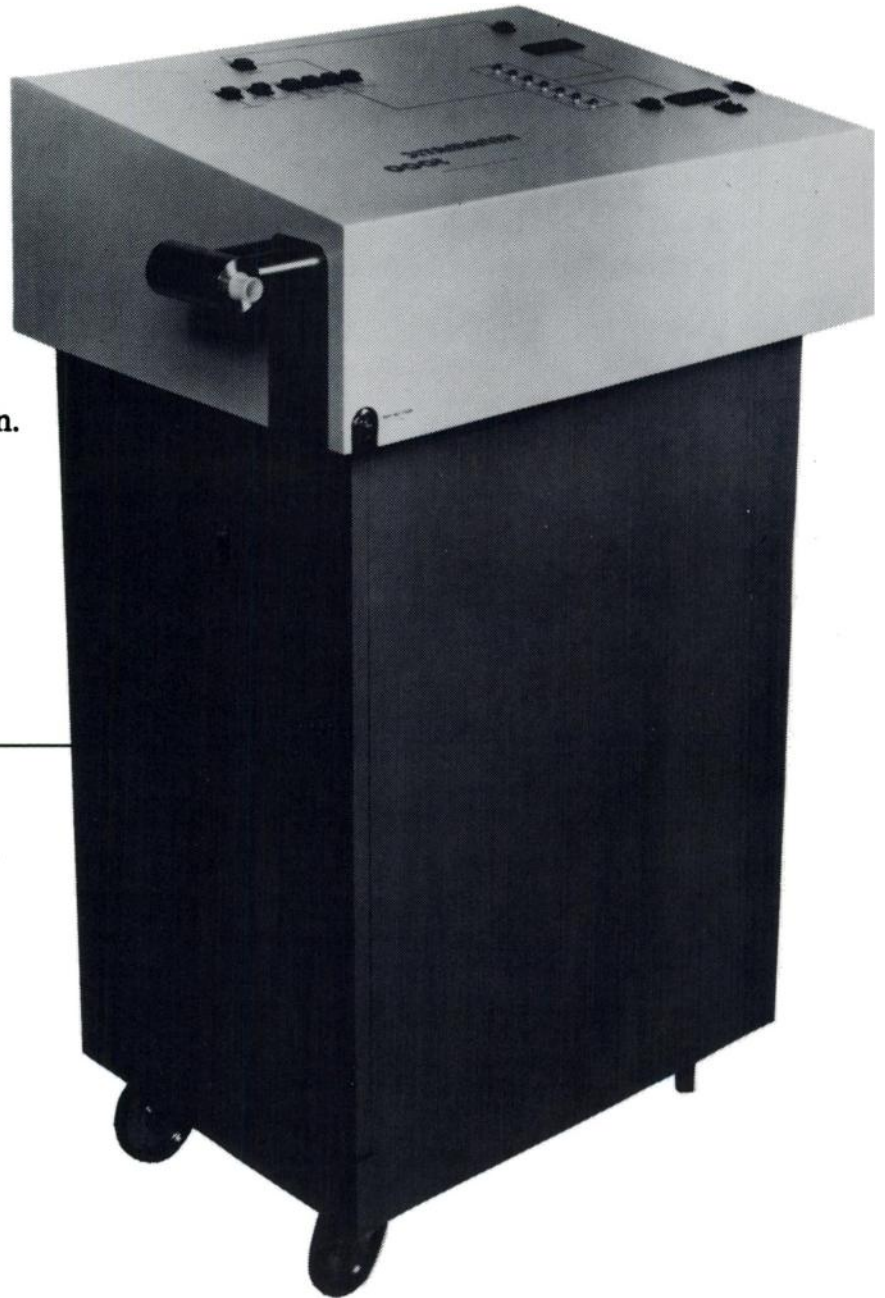
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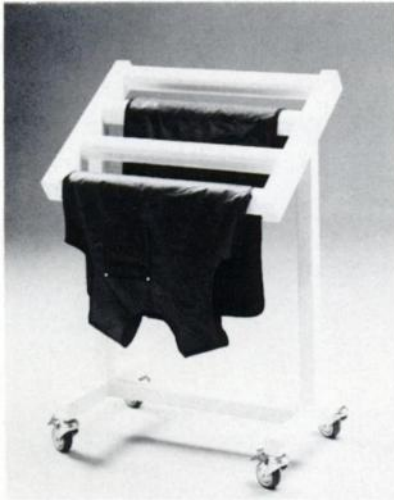
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### Mobile Apron Rack



Atomic Products has developed the Atomlab Mobile Apron Rack. The unit has four horizontal 2½" diameter bars with an eight-apron capacity and heavy duty 3" ball-bearing casters that lock. The rack can stand alone or be placed against a wall, protruding only 22". The "H" frame base makes aprons easily accessible from the front or back of the unit. The design allows aprons to hang loosely, eliminating the creasing and cracking of aprons that damages lead rubber. **Atomic Products Corporation, P.O. Box 702, Shirley, NY 11967. (516) 924-9000.**

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### Single Drive Archive Addition

Vortech Data, Inc. announced the addition of a Single Drive Archive (SDA) to its existing Image Archive and Retrieval System (IARS). The SDA incorporates optical disk-based technology with image management software to provide a database system for storing images and related information. Designed as a low

cost manual optical storage system, the SDA is an ideal solution for small volume users. The amortized storage cost for an MR image is less than one third the cost of film storage. Vortech's Medical Imaging Gateway (MIG) is the platform for the SDA, which is configured with 8 megabytes of main memory and 2.4 gigabytes of optical storage per platter. Over 30,000 MR images or 5,000 cases at 60 images per case can be stored on a single platter. When a specific patient case is requested, the appropriate disk is selected from the shelf and the previous images are retrieved and distributed over a local area network for display alongside the most recent ones. **Vortech Data, Inc., 10700 Parkridge Boulevard, Suite 400, Reston, VA 22091. (703) 264-0020 or (800) 869-9998.**

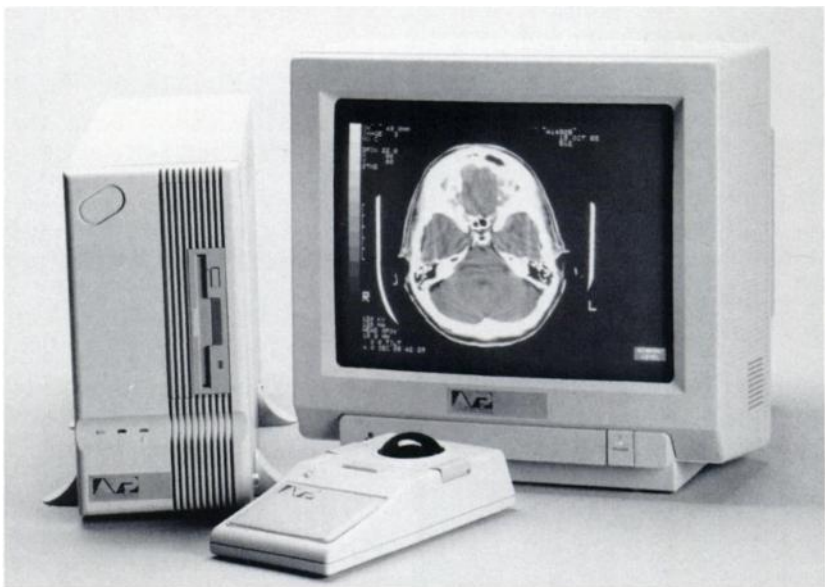
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### First MCA Emulation Software for OS/2 System

MAESTRO-PM™, from EG&G ORTEC, is the first nuclear multichannel analyzer emulation (MCA) software package to run under the Presentation Manager of IBM's OS/2 multitasking operating system. MAESTRO-PM provides true multitasking job streams and advanced MCA features, such as fast peak search, nuclide ID, and on-line activity calculation. Users of DOS programs can "migrate" their programs to the new system and run them under the "DOS BOX" compatibility mode. **EG&G ORTEC, 100 Midland Road, Oak Ridge, TN 37831. (615) 482-4411 or (800) 251-9750.**

Circle Reader Service No. 103

### Teleradiology Workstation Upgrade



Advanced Video Products (AVP) announces improvements to its "low-end" workstations, i.e. workstations with non-interlaced monitors, animation, and color displays. AVP has replaced these workstations with the TELEPRO R2 (TP-R2) series. All TP-R2 stations, display-only and digitizing stations, display images at 640x480 resolution with 256 shades of gray on non-interlaced, flicker-free monitors. These monitors give physicians the best possible image for reading computed tomography, magnetic resonance and ultrasound images. The TELEPRO R2A (TP-R2A) is a high performance display station with all the features of the TP-R2 plus the ability to animate. A more powerful 80386 computer and expanded

display memory allow the animation of computed tomography slices or other images at user-controlled speeds of up to 30 frames per second. Color display is now an option to either the TP-R2 or TP-R2A. Software adaptations and a 14" color monitor allow the display of 256 colors, greatly enhancing nuclear medicine images. Coupled with the animation of the TP-R2A, the station becomes ideal for viewing cardiac wall motion and doppler ultrasound. **David Mahoney, Product Manager, Advanced Video Products, 543 Great Road, P.O. Box 1450, Littleton, MA 01460. (508) 486-0024.**

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## Disposable Dilution Bottles



Nalge Company introduces Nalgene Disposable Dilution Bottles molded in polyethylene terephthalate copolyester (PETG) with a white high-density polyethylene (HDPE) closure. The transparent bottles come in two sizes, 200 ml and 205 ml. The bottle and closure work as a system to provide a guaranteed leakproof seal. In addition, each bottle/closure system is preassembled, radiation-sterilized, and nonpyrogenic to eliminate costly washing, depyrogenation, and autoclaving. To assure sterility, each bottle has a clear heat-shrink band around the closure and neck; this also provides a tamper-evident seal. Bottles are available by the case only and are packed in shrink-wrapped trays. **Marketing Communications, Nalge Company, A Subsidiary of Sybron Corp., Box 20365, Rochester, NY 14602. (716) 586-8020.**

Circle Reader Service No. 105

## Medical Software for Hand-Held Computer

Professional Computerized Notebooks (PCN) has introduced the Drug Interaction Med-I/C-Card, designed to run on the Sharp WIZARD hand-held computer. The product is based on information licensed from "The Medical Letter" and is designed to give medical professionals the ability to immediately determine if there may be negative interactions between drugs about to be prescribed. Negative interactions can be found for a single drug or for multiple drug interactions. The application also allows doctors

to create a patient file, retaining the date, drug, and dosage prescribed. The hand-held computer acts as a portable database for doctors who need to research questions on drug interactions or diagnosis codes. It also captures data and acts as a diary for doctors and nurses as they make their daily rounds, keeping records on the daily status of their patients. The applications are touch screen, so no cumbersome keying is required. PCN is currently developing healthcare software to make use of the interface between the Sharp WIZARD and the PC or Macintosh. **Professional Computerized Notebooks, Inc., Suite 102, 15 Engle Street, Englewood, NJ 07631. (201) 816-0610.**

Circle Reader Service No. 106

## Videotape on Latest Workstations

ACM SIGGRAPH, ACM's Special Interest Group on Computer Graphics, has produced a videotape report on current workstation offerings and the likely evolution of virtual reality interfaces. Parallels with high-definition television's development toward a digital video telecomputer are also explored. The man/machine interface is the key theme of the report. SIGGRAPH expects the videotape, "HDTV & The Quest for Virtual Reality," to be used as a buying and planning guide for workstation users. The two-cassette report reviews the most recent product introductions of all major workstation vendors, including accelerator cards and interactive graphics peripherals. The videotape is Issue 60 of the ACM SIGGRAPH Video Review and is part of SIGGRAPH's "Visualization/State of the Art" series. **SIGGRAPH Video Review, c/o First Priority, P.O. Box 576, Itasca, IL 60143. (800) 523-5503. From outside the U.S., (708) 250-0807.**

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## 3-D Software Package

Elsclint has introduced an interactive 3-D display software package for nuclear cardiology SPECT studies that enables the physician to view the contour of bones, the heart, brain, and other organs in a three-dimensional "functional" perspective. The program enables the user to interactively view tomographic transaxial slices and 3-D views from different angles through the rotation of selected organ or bone structures. The A3D-1 software package offers high resolution and ultra-fast interactive display by apply-

ing advanced threshold techniques. A surface map display is available to provide high quality SPECT brain reports. **Thomas Wilbur, Elscint, Inc., 930 Commonwealth Ave., Boston, MA 02215. (617) 739-6000 or (800) 228-7226.**

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## Daylight Laser Imaging Center

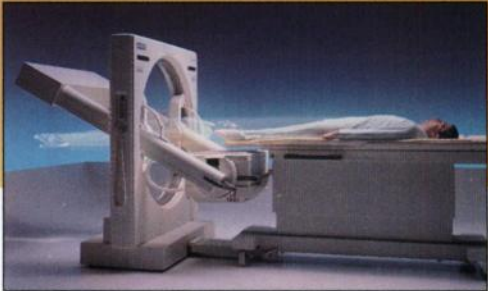
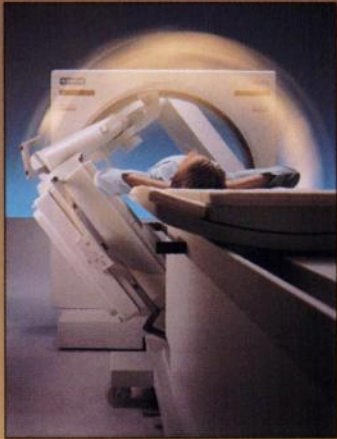
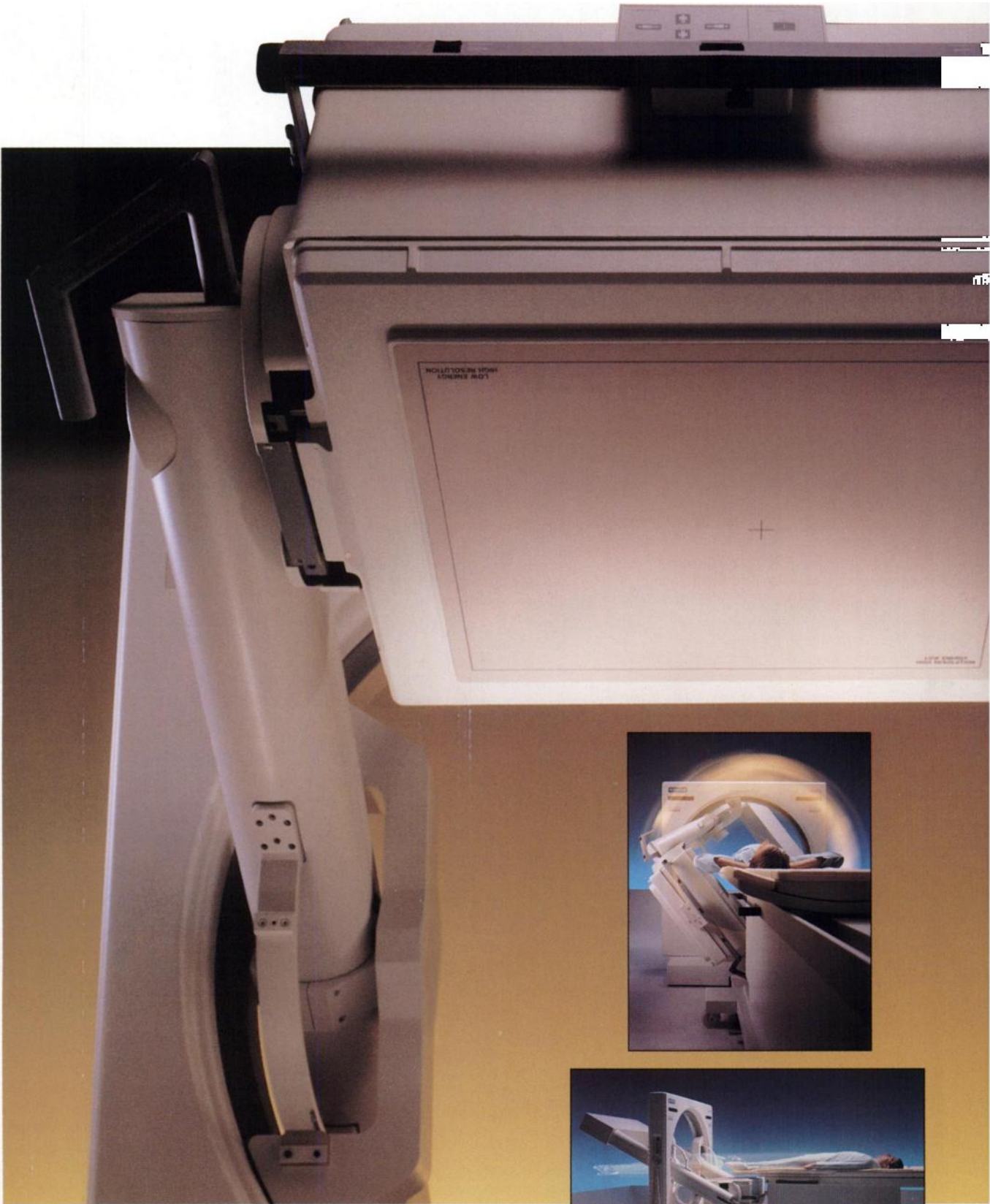


The Agfa Matrix division of Matrix Corporation has introduced an imaging center that integrates imaging, film handling, and film processing in a single device that can interface with virtually all medical diagnostic scanners on the market. The Matrix® Compact L™ system is a daylight laser imaging center, combining the convenience of a complete microprocessor-driven film handling system, a laser imager, and a processing module in a single fully-integrated unit. The laser imager is extremely compact, measuring 55.5" x 51.5" x 35.4". The laser imager was developed specifically to record medical images from digital scanners. It rapidly provides optimal spatial and contrast resolution with multiple original capacity and automatically linearizes the exposure curve of traditional processors to produce "perfect" images. The density curve can also be changed to provide doctors with the ability to customize the exposure of their films. The Matrix Compact L can handle output from up to four scanners at a time. The link-up can increase productivity by more than 25%. **Tom Colucci, Agfa Matrix Division, Agfa Corporation, 100 Challenger Road, Ridgefield Park, NJ 07660. (201) 440-2500.**

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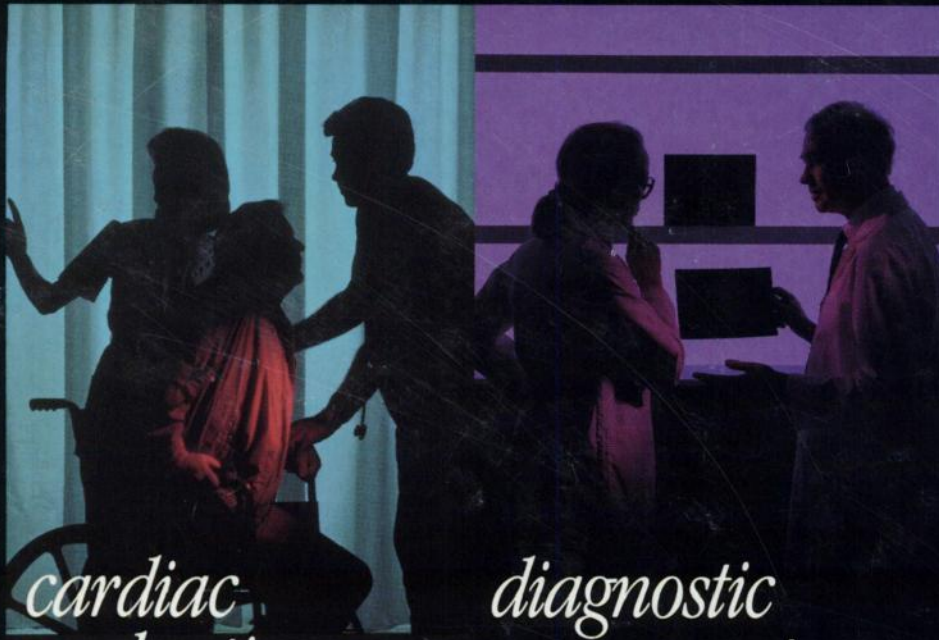
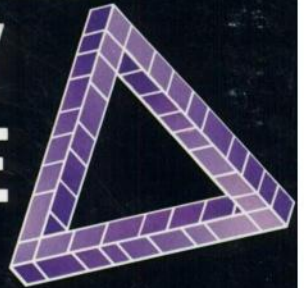
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