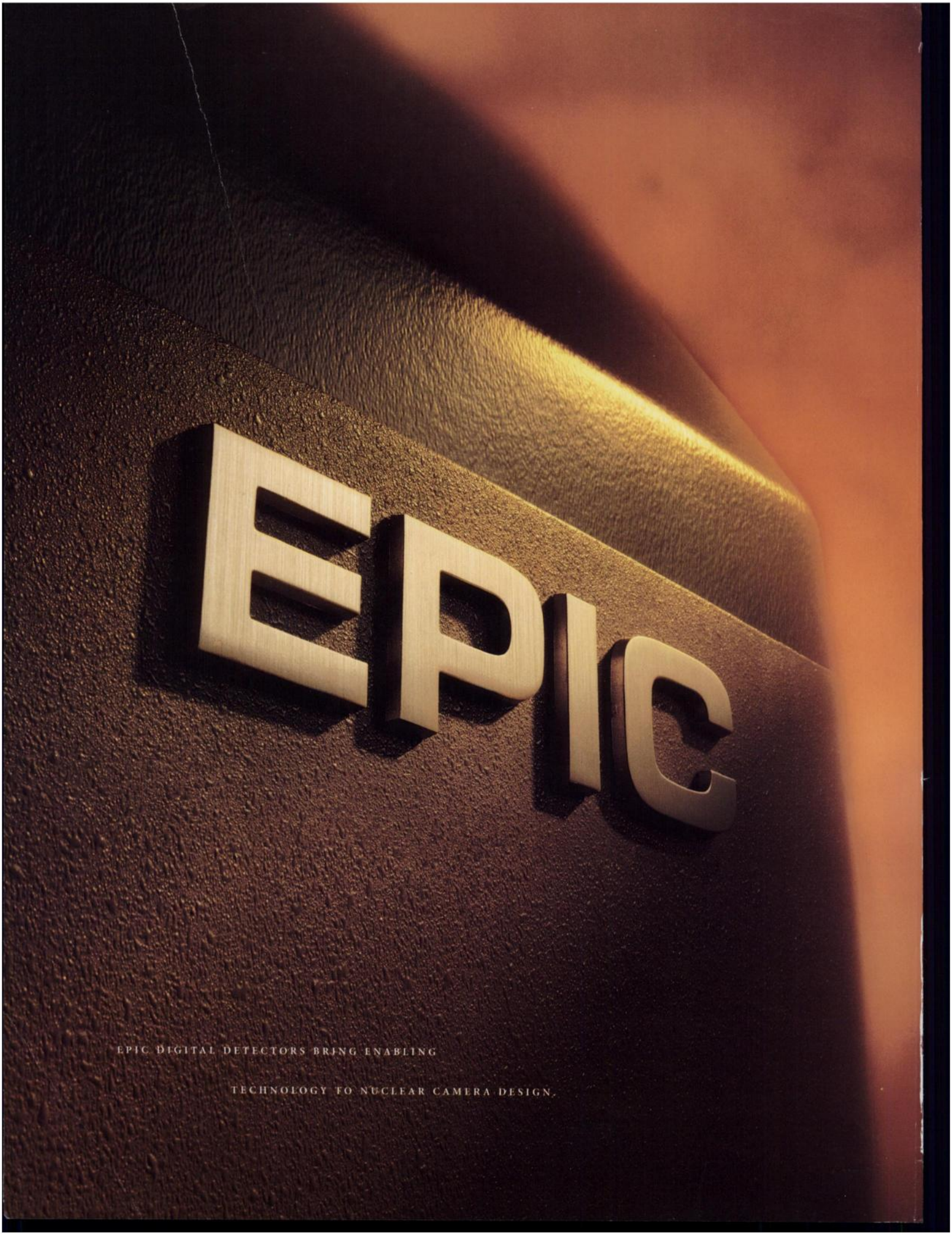

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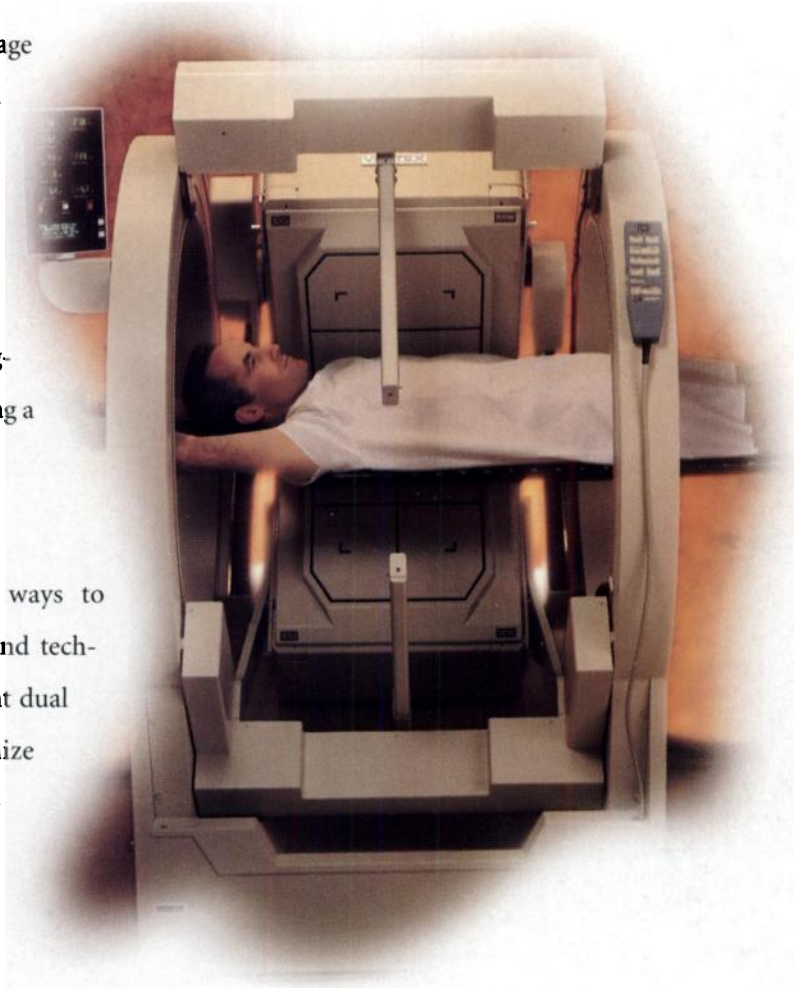

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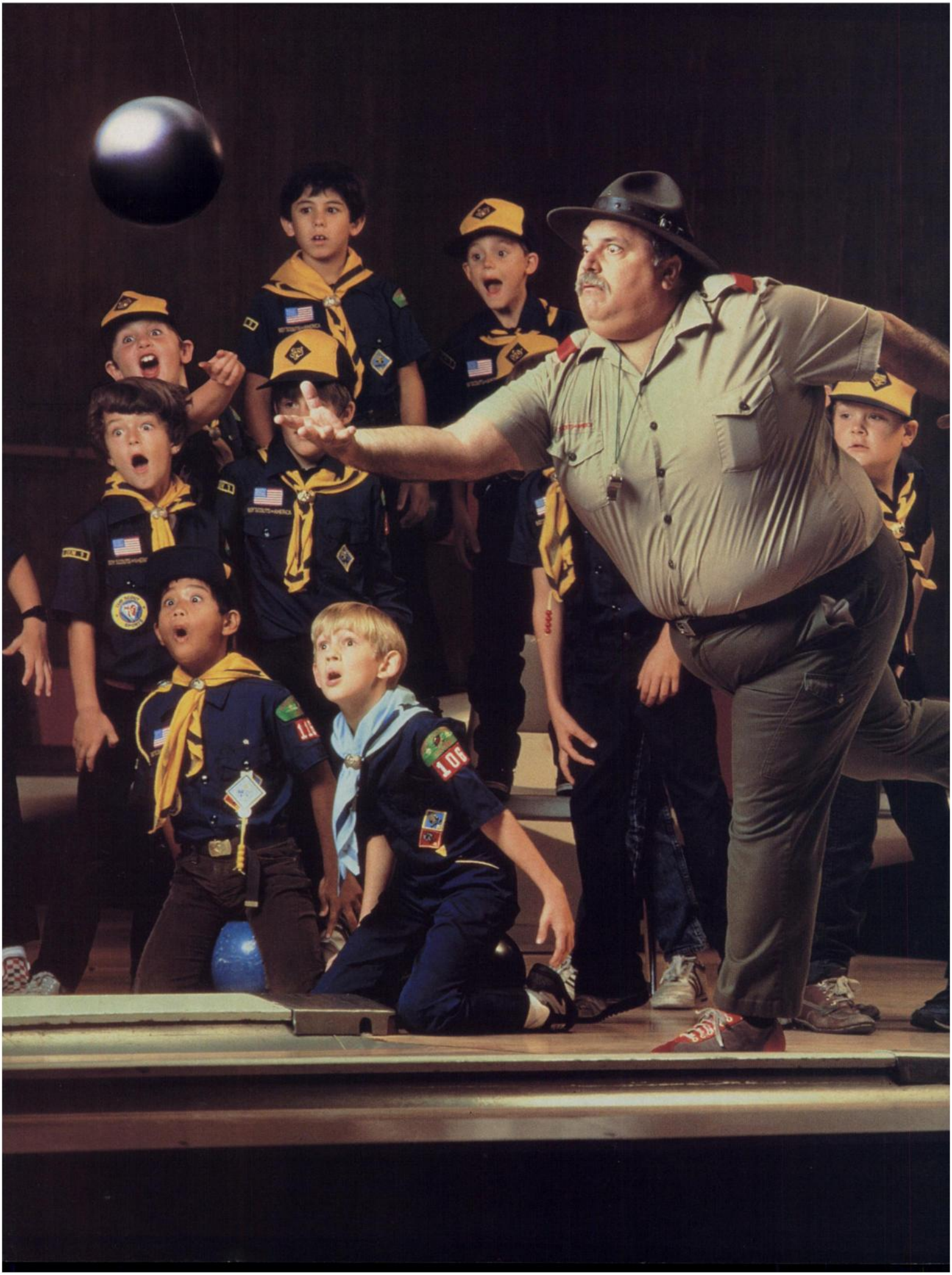

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Kit for the preparation of Technetium Tc99m Sestamibi

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PHARMA
Radiopharmaceuticals

Stress testing should be performed only under the supervision of a qualified physician in a laboratory equipped with appropriate resuscitation and support apparatus. There have been infrequent reports of signs and symptoms consistent with seizure and severe hypersensitivity after administration of Tc99m Sestamibi.

Please see brief summary of prescribing information on adjacent page.

Brief Summary

Cardiolite®

Kit for the preparation of Technetium Tc99m Sestamibi

FOR DIAGNOSTIC USE

DESCRIPTION: Each 5ml vial contains a sterile, non-pyrogenic, lyophilized mixture of:
Tetrakis (2-methoxy isobutyl isonitrile) Copper (I) tetrafluoroborate - 1.0mg
Sodium Citrate Dihydrate - 2.6mg
L-Cysteine Hydrochloride Monohydrate - 1.0mg
Mannitol - 20mg
Stannous Chloride, Dihydrate, minimum ($SnCl_2 \cdot 2H_2O$) - 0.025mg
Stannous Chloride, Dihydrate, ($SnCl_2 \cdot 2H_2O$) - 0.075mg
Tin Chloride (Stannous and Stannic) Dihydrate, maximum (as $SnCl_2 \cdot 2H_2O$) - 0.086mg

Prior to lyophilization the pH is 5.3-5.9. The contents of the vial are lyophilized and stored under nitrogen.

This drug is administered by intravenous injection for diagnostic use after reconstitution with sterile, non-pyrogenic, oxidant-free Sodium Pertechnetate Tc99m Injection.The pH of the reconstituted product is 5.5 (5.0-6.0). No bacteriostatic preservative is present.

The precise structure of the technetium complex is $Tc99m[MIBI]_6^+$ where MIBI is 2-methoxy isobutyl isonitrile.

INDICATIONS AND USAGE: CARDIOLITE®, Kit for the Preparation of Technetium Tc99m Sestamibi is a myocardial perfusion agent that is useful in the evaluation of ischemic heart disease. CARDIOLITE®, Kit for the Preparation of Technetium Tc99m Sestamibi is useful in distinguishing normal from abnormal myocardium and in the localization of the abnormality, in patients with suspected myocardial infarction, ischemic heart disease or coronary artery disease. Evaluation of ischemic heart disease or coronary artery disease is accomplished using rest and stress techniques.

CARDIOLITE®, Kit for the Preparation of Technetium Tc99m Sestamibi is also useful in the evaluation of myocardial function using the first pass technique.

Rest-exercise imaging with Tc99m Sestamibi in conjunction with other diagnostic information may be used to evaluate ischemic heart disease and its localization.

In clinical trials, using a template consisting of the anterior wall, inferior-posterior wall and isolated apex, localization in the anterior or inferior-posterior wall in patients with suspected angina pectoris or coronary artery disease was shown. Disease localization isolated to the apex has not been established. Tc99m Sestamibi has not been studied or evaluated in other cardiac diseases.

It is usually not possible to differentiate recent from old myocardial infarction or to differentiate recent myocardial infarction from ischemia.

CONTRAINDICATIONS: None known.

WARNINGS: In studying patients in whom cardiac disease is known or suspected, care should be taken to assure continuous monitoring and treatment in accordance with safe, accepted clinical procedure. Infrequently, death has occurred 4 to 24 hours after Tc99m Sestamibi use and is usually associated with exercise stress testing (See Precautions).

PRECAUTIONS:

GENERAL

The contents of the vial are intended only for use in the preparation of Technetium Tc99m Sestamibi and are not to be administered directly to the patient without first undergoing the preparative procedure.

Radioactive drugs must be handled with care and appropriate safety measures should be used to minimize radiation exposure to clinical personnel. Also, care should be taken to minimize radiation exposure to the patients consistent with proper patient management.

Contents of the kit before preparation are not radioactive. However, after the Sodium Pertechnetate Tc99m Injection is added, adequate shielding of the final preparation must be maintained.

The components of the kit are sterile and non-pyrogenic. It is essential to follow directions carefully and to adhere to strict aseptic procedures during preparation.

Technetium Tc99m labeling reactions involved depend on maintaining the stannous ion in the reduced state. Hence, Sodium Pertechnetate Tc99m Injection containing oxidants should not be used.

Technetium Tc99m Sestamibi should not be used more than six hours after preparation.

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.

Stress testing should be performed only under the supervision of a qualified physician and in a laboratory equipped with appropriate resuscitation and support apparatus.

The most frequent exercise stress test endpoints, which resulted in termination of the test during controlled Tc99m Sestamibi studies (two-thirds were cardiac patients) were:

Fatigue	35%
Dyspnea	17%
Chest Pain	16%
ST-depression	7%
Arrhythmia	1%

Carcinogenesis, Mutagenesis, Impairment of Fertility

In comparison with most other diagnostic technetium labeled radiopharmaceuticals, the radiation dose to the ovaries (1.5rads/30mCi at rest, 1.2 rads/30mCi at exercise) is high. Minimal exposure (ALARA) is necessary in women of childbearing capability. (See Dosimetry subsection in DOSAGE AND ADMINISTRATION section.)

The active intermediate, $[Cu(MIBI)_4]BF_4$, was evaluated for genotoxic potential in a battery of five tests. No genotoxic activity was observed in the Ames, CHO/HPRT and sister chromatid exchange tests (all *in vitro*). At cytotoxic concentrations (≥ 20μg/ml), an increase in cells with chromosome aberrations was observed in the *in vitro* human lymphocyte assay. $[Cu(MIBI)_4]BF_4$ did not show genotoxic effects in the *in vivo* mouse micronucleus test at a dose which caused systemic and bone marrow toxicity (9mg/kg, > 600 × maximal human dose).

Pregnancy Category C

Animal reproduction and teratogenicity studies have not been conducted with Technetium Tc99m Sestamibi. It is also not known whether Technetium Tc99m Sestamibi can cause fetal harm when administered to a pregnant woman or can affect reproductive capacity. There have been no studies in pregnant women. Technetium Tc99m Sestamibi should be given to a pregnant woman only if clearly needed.

Nursing Mothers

Technetium Tc99m Pertechnetate is excreted in human milk during lactation. It is not known whether Technetium Tc99m Sestamibi is excreted in human milk. Therefore, formula feedings should be substituted for breast feedings.

Pediatric Use

Safety and effectiveness in children below the age of 18 have not been established.

ADVERSE REACTIONS: During clinical trials, approximately 8% of patients experienced a transient parosmia and/or taste perversion (metallic or bitter taste) immediately after the injection of Technetium Tc99m Sestamibi. A few cases of transient headache, flushing, edema, injection site inflammation, dyspepsia, nausea, vomiting, pruritus, rash, urticaria, dry mouth, fever, dizziness, fatigue, dyspnea, and hypotension also have been attributed to administration of the agent. Cases of angina, chest pain, and death have occurred (see Warnings and Precautions). The following adverse reactions have been rarely reported: signs and symptoms consistent with seizure occurring shortly after administration of the agent; transient arthritis in a wrist joint; and severe hypersensitivity, which was characterized by dyspnea, hypotension, bradycardia, asthenia and vomiting within two hours after a second injection of Technetium Tc99m Sestamibi.

DOSAGE AND ADMINISTRATION: The suggested dose range for I.V. administration in a single dose to be employed in the average patient (70kg) is:

370-1110MBq (10-30mCi)

The dose administered should be the lowest required to provide an adequate study consistent with ALARA principles (see also PRECAUTIONS).

When used in the diagnosis of myocardial infarction, imaging should be completed within four hours after administration.

The patient dose should be measured by a suitable radioactivity calibration system immediately prior to patient administration. Radiochemical purity should be checked prior to patient administration.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration whenever solution and container permit.

Store at 15-25°C before and after reconstitution.

RADIATION DOSIMETRY: The radiation doses to organs and tissues of an average patient (70kg) per 1110MBq (30mCi) of Technetium Tc99m Sestamibi injected intravenously are shown in Table 4.

Table 4. Radiation Absorbed Doses from Tc99m Sestamibi

	Estimated Radiation Absorbed Dose			
	REST			
	2.0 hour void		4.8 hour void	
Organ	rads/ 30mCi	mGy/ 1110MBq	rads/ 30mCi	mGy/ 1110MBq
Breasts	0.2	2.0	0.2	1.9
Gallbladder Wall	2.0	20.0	2.0	20.0
Small Intestine	3.0	30.0	3.0	30.0
Upper Large Intestine Wall	5.4	55.5	5.4	55.5
Lower Large Intestine Wall	3.9	40.0	4.2	41.1
Stomach Wall	0.6	6.1	0.6	5.8
Heart Wall	0.5	5.1	0.5	4.9
Kidneys	2.0	20.0	2.0	20.0
Liver	0.6	5.8	0.6	5.7
Lungs	0.3	2.8	0.3	2.7
Bone Surfaces	0.7	6.8	0.7	6.4
Thyroid	0.7	7.0	0.7	6.8
Ovaries	1.5	15.5	1.6	15.5
Testes	0.3	3.4	0.4	3.9
Red Marrow	0.5	5.1	0.5	5.0
Urinary Bladder Wall	2.0	20.0	4.2	41.1
Total Body	0.5	4.8	0.5	4.8
	STRESS			
	2.0 hour void		4.8 hour void	
Organ	rads/ 30mCi	mGy/ 1110MBq	rads/ 30mCi	mGy/ 1110MBq
Breasts	0.2	2.0	0.2	1.8
Gallbladder Wall	2.8	28.9	2.8	27.8
Small Intestine	2.4	24.4	2.4	24.4
Upper Large Intestine Wall	4.5	44.4	4.5	44.4
Lower Large Intestine Wall	3.3	32.2	3.3	32.2
Stomach Wall	0.5	5.3	0.5	5.2
Heart Wall	0.5	5.6	0.5	5.3
Kidneys	1.7	16.7	1.7	16.7
Liver	0.4	4.2	0.4	4.1
Lungs	0.3	2.6	0.2	2.4
Bone Surfaces	0.6	6.2	0.6	6.0
Thyroid	0.3	2.7	0.2	2.4
Ovaries	1.2	12.2	1.3	13.3
Testes	0.3	3.1	0.3	3.4
Red Marrow	0.5	4.6	0.5	4.4
Urinary Bladder Wall	1.5	15.5	3.0	30.0
Total Body	0.4	4.2	0.4	4.2

Radiopharmaceutical Internal Dose Information Center, July, 1990, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge, TN 37831, (615) 576-3449.

HOW SUPPLIED: Du Pont Radiopharmaceuticals' CARDIOLITE®, Kit for the Preparation of Technetium Tc99m Sestamibi is supplied as a 5ml vial in kits of two (2), five (5) and thirty (30) vials, sterile and non-pyrogenic.

Prior to lyophilization the pH is between 5.3-5.9. The contents of the vials are lyophilized and stored under nitrogen. Store at 15-25°C before and after reconstitution. Technetium Tc99m Sestamibi contains no preservatives. Included in each two (2) vial kit are one (1) package insert, six (6) vial shield labels and six (6) radiation warning labels. Included in each five (5) vial kit are one (1) package insert, six (6) vial shield labels and six (6) radiation warning labels. Included in each thirty (30) vial kit are one (1) package insert, thirty (30) vial shield labels and thirty (30) radiation warning labels.

The U.S. Nuclear Regulatory Commission has approved this reagent kit for distribution to persons licensed to use byproduct material pursuant to section 35.11 and section 35.200 of Title 10 CFR Part 35, to persons who hold an equivalent license issued by an Agreement State, and, outside the United States, to persons authorized by the appropriate authority.

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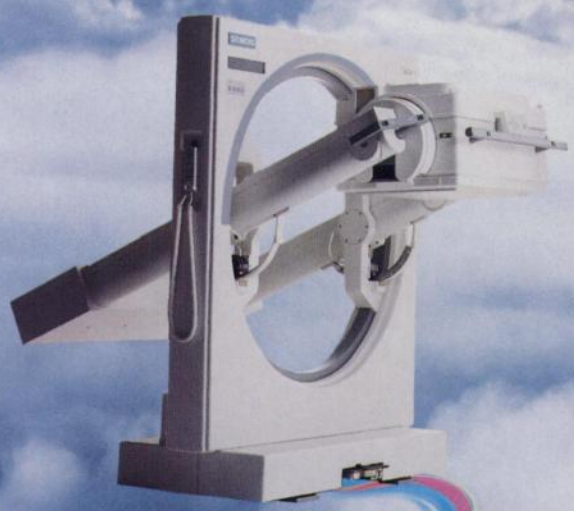

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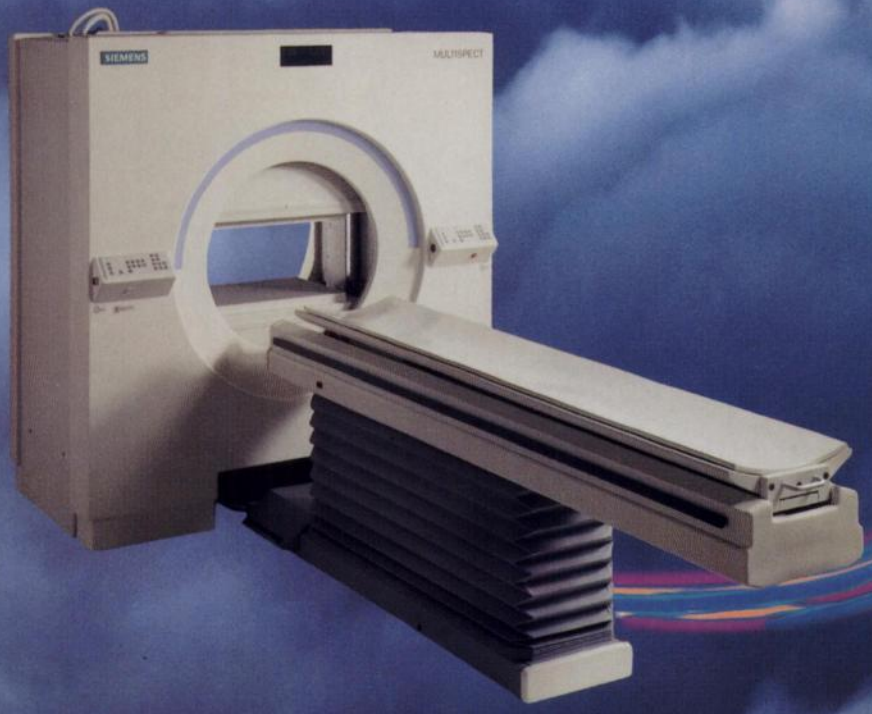

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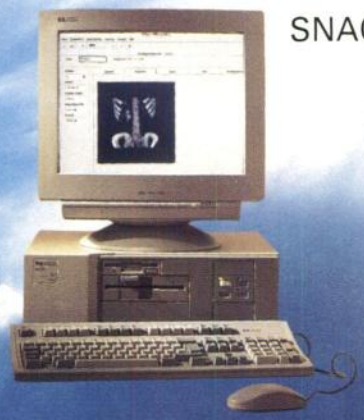

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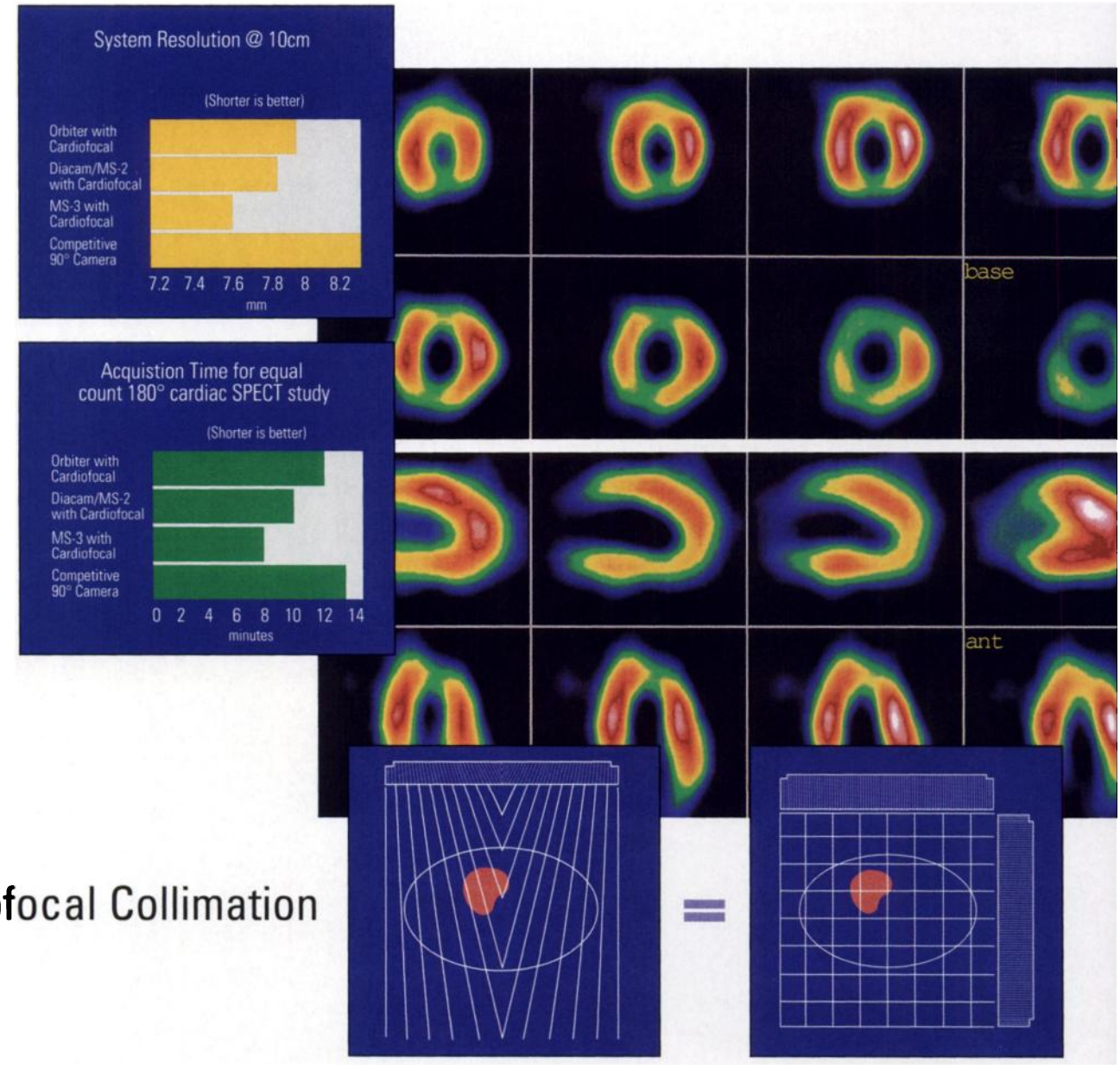

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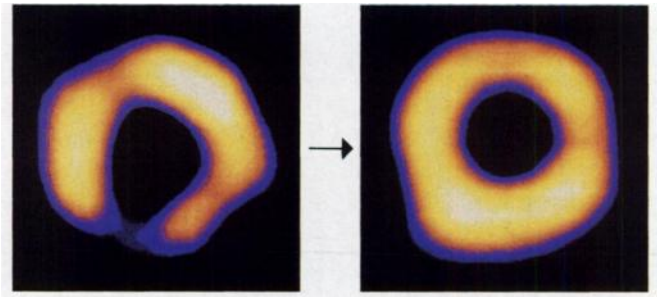

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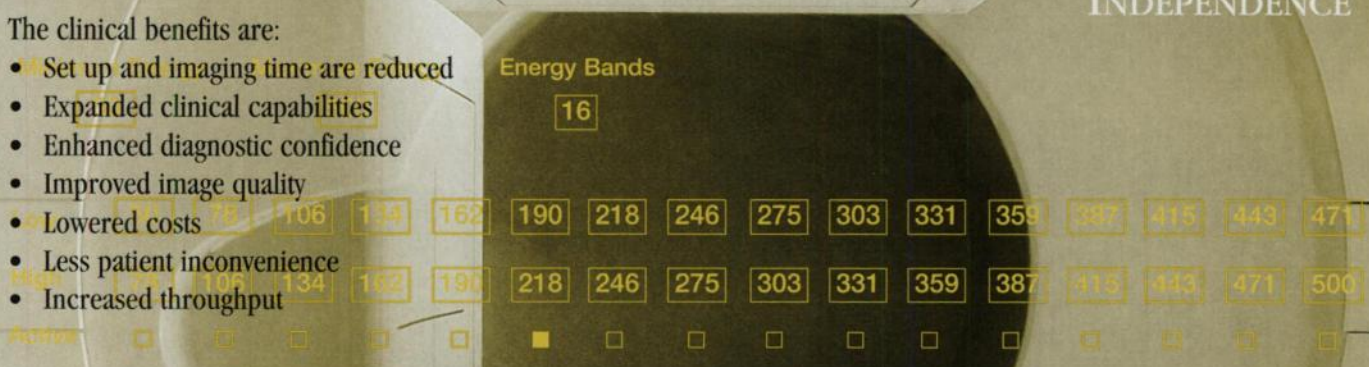

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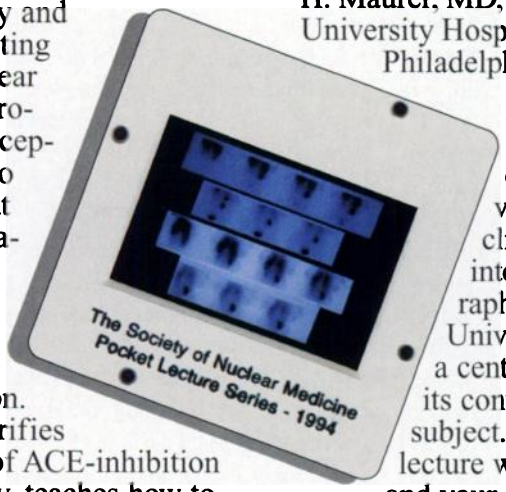

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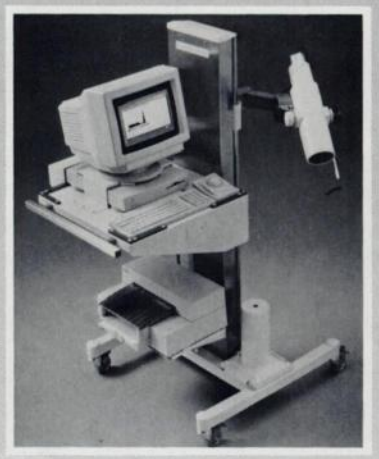

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SPECT BRAIN IMAGING CLINICAL FELLOWSHIP

MEDICAL COLLEGE OF WISCONSIN

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 Ceretec® and Neurolite®.

Objectives include:

- Development of interpretation skills for brain images.
- Appreciation of clinical applications of SPECT brain imaging.
- Knowledge of image acquisition and reconstruction.
- Appreciation of factors that influence image quality.
- 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)*

❑ March 13-14, 1995 ❑ November 13-14, 1995

❑ September 11-12, 1995

A check in the amount of $650 should accompany this registration form and be made payable to the Medical College of Wisconsin. Telephone registrations must be confirmed by check within 10 days.

Name _____

Address _____

City/State/Zip _____

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
8700 W. Wisconsin Avenue
Milwaukee, WI 53226
Phone: (414) 777-3756 • Fax: (414) 771-3460

42 ANNUAL MEETING

MINNEAPOLIS

Join more than 8000 of your colleagues in celebrating the 42nd Annual Meeting of the Society of Nuclear Medicine in Minneapolis Minnesota, June 11-15, 1995. Participate in the intensive educational program, review posters, discuss the most recent developments with colleagues, and join any of a host of much talked about extracurricular activities. Don't miss this opportunity to learn, mingle with your colleagues, and visit with exhibitors.

Refresher and state-of-the art continuing education courses in chemistry, physics, quality assurance, cardiovascular nuclear medicine, PET, SPECT and NMR will supply up-to-the-minute approaches and procedures for all clinical settings.

SCIENTIFIC PAPERS

This years presentation of over 1000 scientific papers and posters includes a distillation of the latest advancements and finest work achieved by outstanding scientists and physicians in the field of nuclear medicine. These papers, presented by the original authors, with over 30 subjects to choose from, will provide a unique opportunity for enhancing your knowledge or exploring new avenues in correlative areas of nuclear medicine. Ample time is allotted at these presentations for questions and discussions. An extensive display of scientific posters and exhibits will augment the presentation. The ever-increasing importance of the role of the nuclear medicine technologist will be explored in our Technologist Program, and over 70 hours of clinical updates will provide chief and staff technologists with the latest in basic, intermediate, and advanced studies. This program will broaden expertise and enhance the technologist's contribution to nuclear medicine.

AUDIOVISUALS, BOOKS, JOURNALS

The Society of Nuclear Medicine is continuously adding to its library of audiovisuals, books, and other publications. A stop at the publications booth is well worth the time. Here you will find on display what the Society has to offer for year-round educational advancement. Networking opportunities and job referral boards are available at special locations throughout the meeting as well as membership information at our membership booth.

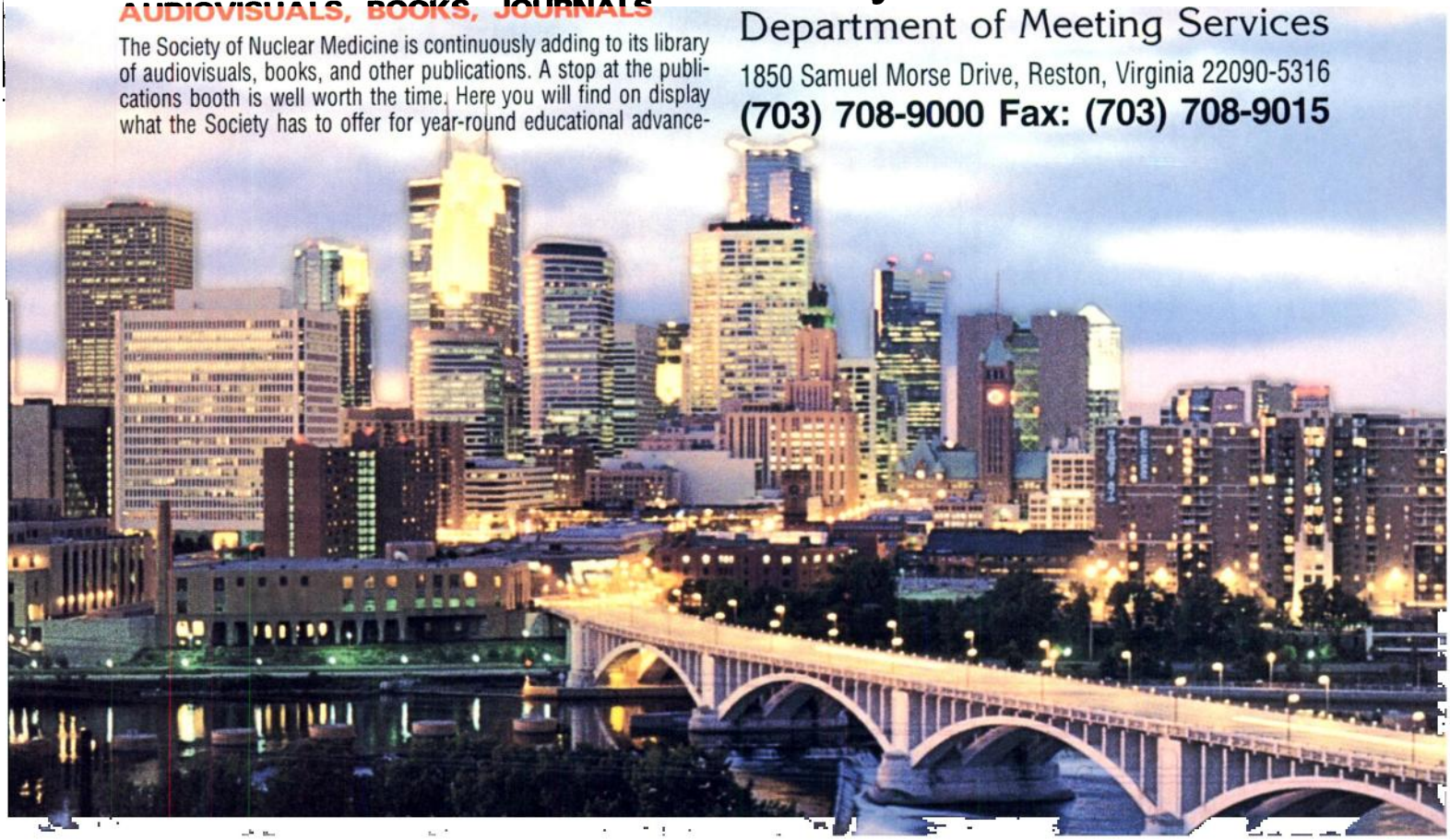
EXHIBIT

All the major manufacturers of nuclear medicine products and services-more than 100 in all-will be on hand to explain and demonstrate the most technologically-advanced equipment. Several companies will present User Meetings to give an in-depth understanding of their products.

	Before May 5	After May 5
Physicians/Scientists		
Members	$180.00	$200.00
Nonmembers	$275.00	$295.00
Technologists		
Members	$150.00	$170.00
Nonmembers	$275.00	$295.00

If you need further information, please contact:

Society of Nuclear Medicine
Department of Meeting Services
1850 Samuel Morse Drive, Reston, Virginia 22090-5316
(703) 708-9000 Fax: (703) 708-9015



Classified Advertising Information: 1994/1995

Policy: *The Journal of Nuclear Medicine* and the *Journal of Nuclear Medicine Technology* accept classified advertisements from medical institutions, groups, suppliers, and qualified specialists in nuclear medicine. Acceptance is limited to Positions Open, Positions Wanted, and Equipment. We reserve the right to decline, withdraw, or modify advertisements.

Line-Ads: $22.00 (JNM) or $19.00 (JNMT) per line or fraction of line (approx. 40 characters per line, including spaces). Please allow 28 characters for the first line which will appear in capital letters. Special **Positions Wanted** rate for SNM members: $10.00 per line. *Note:* Box numbers are available for the cost of the two lines required.

Examples of Line-Ads:

NUCLEAR MEDICINE TECHNOLOGIST. Registered or registry eligible technologist to work in private office. Special emphasis on nuclear cardiology. Salary negotiable. Send resume to: Box 1203, The Society of Nuclear Medicine, 136 Madison Ave., 8th fl., New York, NY 10016-6760. EOE.

◄ Estimate 28 characters first line

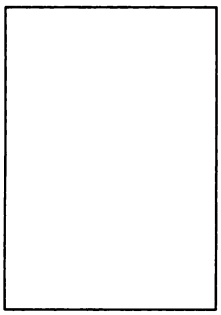
◄ Estimate 40 characters per line ►

NUCLEAR MEDICINE PHYSICIAN with board certification in internal medicine or radiology needed for expanding out patient imaging practice. Qualified applicants should send CV to: I.M.C. Inc., 2040 W. Wisconsin Ave., Suite 378, Milwaukee, WI 53233; (414) 933-8730. EOE.

WITH BOX NUMBER
Cost: 6 lines × $22.00 = $132.00 (JNM)
6 lines × $19.00 = $114.00 (JNMT)

WITHOUT BOX NUMBER
Cost: 6 lines × $22.00 = $132.00 (JNM)
6 lines × $19.00 = $114.00 (JNMT)

Display Ad Dimensions:



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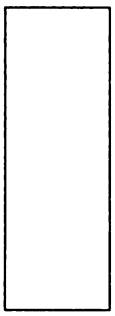

½ PAGE VERTICAL
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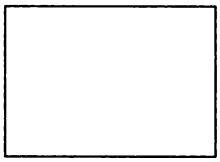

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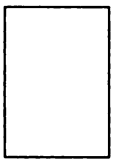

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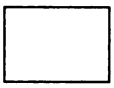

⅛ PAGE
3⅜" wide × 2⅜" high

Display Ad Rates:

JNM		JNMT	
Full page	$1,500	Full page	$850
Half page	950	Half page	500
Quarter	700	Quarter	400
Eighth	550	Eighth	350

*Publisher-set charges: page $150; half page $100; quarter page $75; eighth page $50

Terms: Payment and an authorized Purchase Order must accompany order. Make check payable to: The Society of Nuclear Medicine. *Note:* 15% agency commission is offered on display ads only.

Deadlines: *JNM*— Last business day of the month preceding the publication date (for example, August 31st for October issue). *JNMT*— 25th of second month preceding publication date (for example, October 25th for December issue).

Frequency: *The Journal of Nuclear Medicine* is a monthly and the *Journal of Nuclear Medicine Technology* is a quarterly, published in March, June, September, and December.

Send copy to: Classified Advertising Department
The Society of Nuclear Medicine
1850 Samuel Morse Drive
Reston, Virginia 22090-5316
Fax: (703) 708-9015

For further information, please contact Jessica McLane at (703) 708-9000.

SOCIETY OF NUCLEAR MEDICINE,

Technologist Section Celebrating Its 25th Anniversary in 1995

CELEBRATE THE HISTORY.

Since its founding in 1970, the Technologist's Section of the Society of Nuclear Medicine has been dedicated to advancing the science and education of Nuclear Medicine Technology nationwide.

During the past 25 years, Nuclear Medicine has seen a lot of changes. The SNM Technologist Section has not only responded to these changes, but has improved the practice of Nuclear Medicine Technology along the way. Some of the SNM Technologist Section's most significant contributions include the establishment of:

- ***The Nuclear Medicine Certification Board — the preeminent national certification process for the credentialing of Nuclear Medicine Technologists in the United States, and***
- ***The Journal of Nuclear Medicine Technology — the only publication devoted solely to the technical aspects of the practice of Nuclear Medicine Technology.***

CELEBRATE THE 25th ANNIVERSARY.

The 25th Silver Anniversary of the founding of the SNM Technologist Section will be celebrated throughout 1995 with special commemorative events, such as:

- ***Lectures honoring technologist pioneers;***
- ***Chapter membership drives with achievement awards;***
- ***JNMT articles chronicling the history of the Technologist Section;***
- ***A special 25th Anniversary issue of JNMT; and***
- ***An all out 25th Anniversary party at the 1995 SNM Annual Meeting in Minneapolis.***

Additionally, the Technologist Section will have special 25th Anniversary memorabilia for sale*, including T-shirts, pewter lapel pins, mugs, buttons, tote bags, posters, and more.

You and your hospital, university or Chapter can pay tribute to the 25th Anniversary by participating in local and national commemorative events, and by purchasing special 25th Anniversary memorabilia.

Celebrate in 1995 as the SNM Technologist Section honors its past and anticipates the future.

For additional Information, please contact Kristin Ludwig at the Society of Nuclear Medicine: 1850 Samuel Morse Drive, Reston, Virginia 22090-5316. 703-708-9000.

*Look for information on how to order special 25th Anniversary memorabilia in the March issues of JNM and JNMT.

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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.

- Shielded for Xe 127 and Xe 133 (radiation profile available on request).
- World's only system that allows you to study patients on Ventilators.
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- Low breathing resistance so you can study sick patients.
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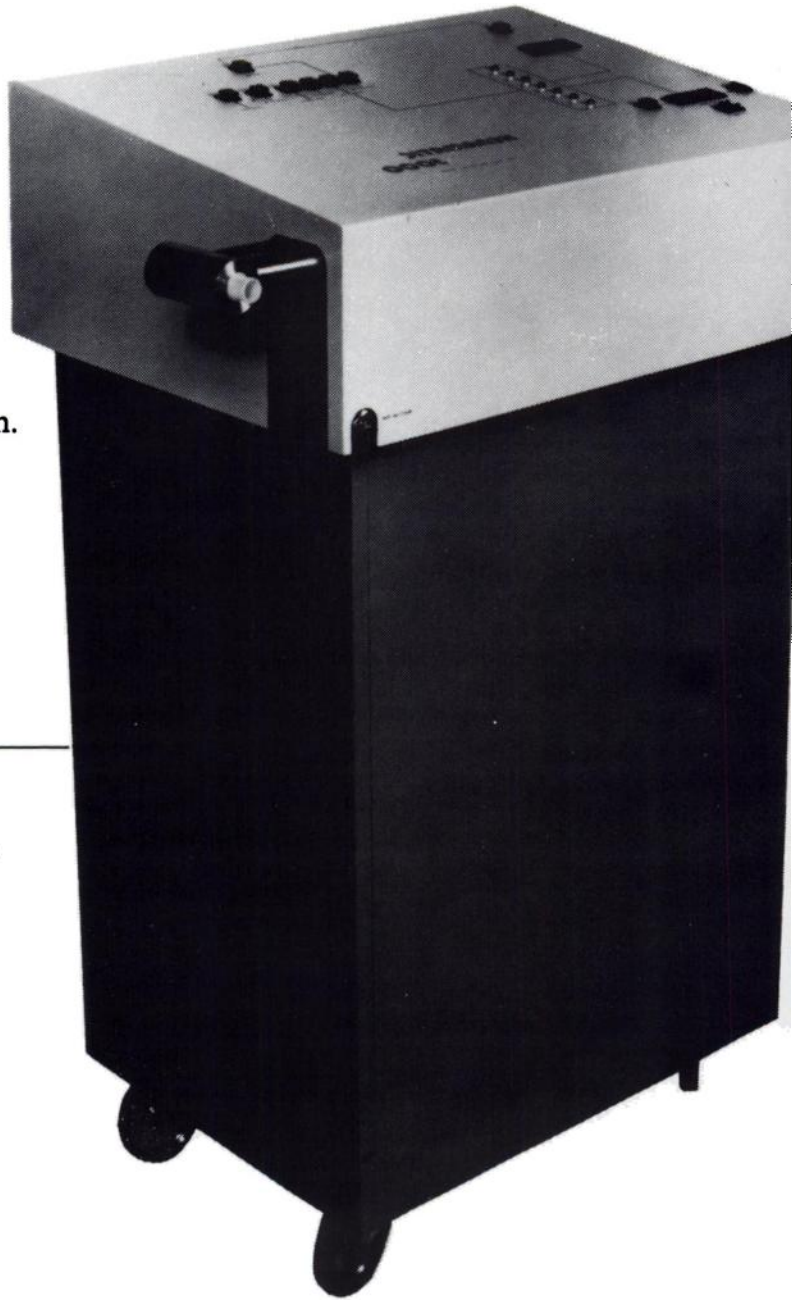

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Also available, Model 2000.

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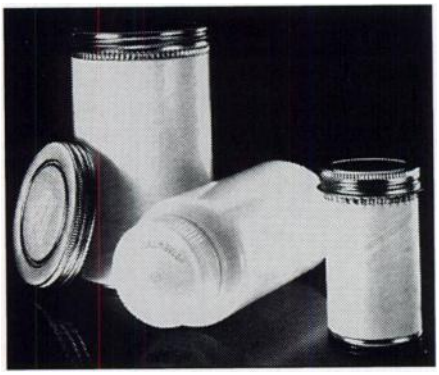
Each description of the products below was condensed from information supplied by the manufacturer. The reviews are published as a service to the professionals working in the field of nuclear medicine and their inclusion herein does not in any way imply an endorsement by the Editorial Board of *The Journal of Nuclear Medicine* or by the Society of Nuclear Medicine.

Redesigned Bottle Mailer



The redesigned Nalgene™ bottle mailer features a cardboard tube and a new aluminum screw closure that securely holds one leakproof Nalgene bottle or bottles with similar dimensions. The tube can be used to mail a bottle containing laboratory, clinical or environmental samples from lab to lab or field to lab for analysis. The wide-mouth bottle in the tube is a safe shipping container for small tubes and bottles containing biological agents. The mailer is available in five sizes to accommodate 30-, 60-, 125-, 250- and 500-ml Nalgene bottles. The bottle mailer is also available with a wide-mouth Nalgene high-density polyethylene bottle. **Nalge Company, A Subsidiary of Sybron Corp., P.O. Box 20365, Rochester, NY 14602. (716) 264-3985. Fax: (716) 586-8431.**

Rectangular Size Available for Cobalt-57 Flood Sources

Biodex Medical Systems offers a cobalt-57 rectangular flood source to make calibration of rectangular head SPECT gamma cameras more reliable, convenient and safe. Source uniformity is guaranteed with less than ± 1% s.d. The flood source does not need to be filled and is a solid matrix composition, which eliminates the need to handle liquids and has a lower handling dose than liquid-filled sources. Disposal programs for replacement sources are offered by Biodex. Flood sources come with a Leak-Test certificate and a self-supporting shielded storage case on wheels. **Radiology Sales, Biodex Medical Systems, Brookhaven R&D Plaza, Box 702, Shirley, NY 11967-0702. (516) 924-9000, ext. 230. Fax: (516) 924-9241.**

New Laser Imager By 3M

The new 3M DryView 8800 Multi-Input Manager offers options for expanding and upgrading systems using 3M Laser Imagers and 3M DryView Laser Imagers. The imager accepts up to eight inputs from digital or analog modalities and outputs to one or two 3M Laser Imagers. With the multiple-input feature, users have greater printer utilization by sharing printer resources, so users can print both laser imager film and new 3M DryView films. The two-output option gives additional flexibility in printer placement and provides simultaneous printer back-up with user selectable printer destinations. **3M Health Care Customer Helpline (800) 228-3957, ext. 7-1332.**

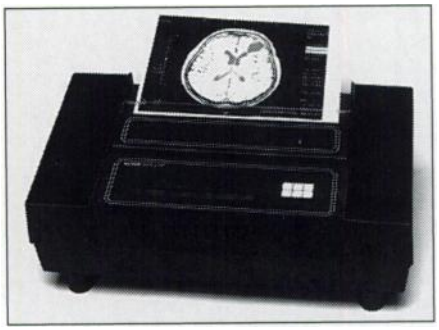
StandFast II: A Whole-body Counter System

StandFast II from EG&G ORTEC is a stand-up whole-body counter system for rapid screening of workers in order to identify and quantify fission and activation product radionuclides within the body. Features include: a hexagonal walk-through shield design that fits neatly in a corner and provides efficient throughput of subjects, computer-optimized shielding provides maximum interior space, accommodates Windows™ based system software with integral subject database facility and can be easily interfaced to other computer systems if required. StandFast II is capable of processing subjects at a rate of more than 45 per hr. In a nominal 28-sec analysis time, spectra from both detectors are analyzed. Data for one subject can be analyzed while a count is in progress for the second subject, and while a third subject is being processed into the system for counting. Supervisor and operator modes using password protection provides data security and subject results are automatically stored in the industry-standard subject database, so recounts are easily achieved with minimum data entry. **EG&G Nuclear Instruments, 100 Midland Rd., Oak Ridge, TN 37831-0895. (615) 482-4411. Fax: (615) 483-0396.**

Information Exchange for Physicians

Physician Computer Network, Inc. introduces the PCN® Health Network™, a multi-user, interactive information system designed specifically for physicians. The UNIX-based PCN Health Network information system is a comprehensive, user-friendly environment that offers physicians the capability for seamless, two-way communications with hospitals, clinical laboratories, insurance carriers, pharmacies and other healthcare service providers. This new network offers managed care information processing, patient and insurance billing, reimbursement, collections, appointment scheduling and medical record reference. It also allows physicians to electronically generate clinical information and financial reports. **Physician Computer Network, Inc., 10 Industrial Ave., Mahwah, NJ 07430. (800) 221-1476. Fax: (201) 934-5538.**

New Scale Printer for Medical Market



Alden Electronics, Inc. announced that NOVUS Technologies, Inc. has completed the interface that makes the Alden 9315CTP printer a standard accessory for the NOVUS Image Archive System, their medical imaging system. The Image Archive System is used by medical facilities to record images from MR and CT scanners and store them electronically on optical cards. The Alden printer acts as an accessory to print the scanned image for the physician and the patient to view. The Alden 9315CTP produces high-resolution black and white images that have up to 256 shades of gray for photographic quality output. Using direct thermal printing technology, the printer produces images quickly and cleanly; it does not require ink cartridges, ribbons or toner and therefore, there is no waste disposal. With only three moving parts, the printer is designed to virtually eliminate paper jams and adjustments and to operate with little maintenance. The printer works with IBM and compatible PCs, Macintosh, SUN and Silicon Graphics systems. **Alden Electronics, Inc., 40 Washington St., Westborough, MA 01581-0500. (619) 625-0111.**

Positions Available

Nuclear Medicine Physician

A position exists with Regina Nuclear Medicine Associates. The Associates are committed to provide diagnostic and therapeutic Nuclear Medicine services to the three hospitals of the Regina Health District. The Associates provide diversified general, oncologic and cardiac nuclear medicine services with state of the art dual headed SPECT cameras and modern computers. The hospitals are within short driving distances of each other. The successful candidate is expected to provide full-time and regular nuclear medicine services and should have FRCP or a formal, written letter stating his or her eligibility to write the Royal College Nuclear Medicine exam. Ability to work in a cooperative fashion with imaging physicians is considered an asset. Please forward a letter of interest, CV and names of three recent Nuclear Medicine related work references to: Dr. V.K. Trivedi, c/o Regina Nuclear Medicine Associates, Plains Health Centre, 4500 Wascana Parkway, Regina, Saskatchewan Canada, S4S 5W9.

Nuclear Medicine Training Programs

Nuclear Medicine Training Programs, State University of New York at Buffalo. The Department of Nuclear Medicine at SUNY/Buffalo offers the following residency training programs: 1) two-year nuclear medicine residency; 2) five-year track programs combining nuclear medicine with radiology or internal medicine or neurology or psychiatry leading to board eligibility in both specialties; and 3) one-year nuclear medicine programs for qualified radiologists. These programs offer a comprehensive exposure to all aspects of nuclear medicine including PET and allied imaging fields and research. Applications/information: Dr. Joseph Prezio, SUNY/Buffalo Nuclear Medicine, 105 Parker Hall, 3435 Main Street, Buffalo, NY 14214-3007. AA/EOE.

Resident

Two and three year Nuclear Medicine Residencies are available at St. Luke's Medical Center, Milwaukee, WI. St. Luke's is a 600-bed general and acute care community hospital, and is one of the largest cardiac care centers in the U.S. The program gives the resident very strong training in nuclear cardiology, SPECT imaging, and general nuclear medicine. Instrumentation is modern and includes one triple head SPECT camera, one dual head SPECT camera, five single head SPECT cameras, one dual head whole body camera, one LFOV camera, one mobile gamma camera, and a large networked nuclear medicine computer system. Well-over 11,000 imaging procedures are performed annually. Staff includes 2 full time double boarded ABNM certified physicians, 1 medical physicist, 1 nuclear pharmacist, 1 programmer and a technical staff of 16. The residency is structured around a strong teaching program in the basic sciences and clinical nuclear medicine. Call is shared among multiple individuals, residents are always backed up by staff, and adequate time is available for reading and research. Residents are required to write one paper per year. Address applications and inquiries to Dr. David Yuille, Director of Nuclear Medicine Residency, St. Luke's Medical Center, 2900 W. Oklahoma Avenue, Milwaukee, WI 53215, (414) 649-6418.

Positions Wanted

FRCPC, Well experienced in all aspects of Nuclear Medicine (Cardiology, Brain SPECT, Endocrinology, Bone Densitometry, Radionuclide Therapy, In-Vitro Tests). Presently employed in Canada. Wants to relocate within Canada. Ready to work in an academic/private practice set-up. Interested in teaching and research. Will consider working in a small Department with potential for expansion. Available March 1995. Reply to Box #202, Society of Nuclear Medicine, 1850 Samuel Morse Drive, Reston VA 22090.

Nuclear Cardiology Resource Coordinator

Northwestern Memorial Hospital, one of the nation's leading academic medical centers, is seeking a qualified individual to join our expanding Nuclear Cardiology department. This is an exceptional opportunity for you to broaden your horizons and learn the latest scanning procedures using state-of-the-art equipment.

Candidates must possess at least 5 years Nuclear Technologist experience including the ability to perform a full complement of Nuclear Cardiology procedures, prepare radiopharmaceuticals for administration, perform camera and radioisotope quality control, and operate SPECT camera systems. Prior supervisory and research background is beneficial.

Northwestern Memorial offers an excellent salary and benefits package including tuition reimbursement. For consideration, please send resume to: Alice M. Spann, Northwestern Memorial Hospital, 310 E. Huron, Chicago, IL 60611. An EEO/AA Employer.

NUCLEAR CARDIOLOGY FELLOWSHIP

1 year team program offers active participation in innovative major academic clinical facility with strong research productivity. Candidate must have completed 2 years of clinical nuclear medicine training.

Send CV to: **Jeffrey Borer, M.D., The New York Hospital-Cornell Medical Center, 525 East 68th Street, Room F467, New York, NY 10021.** EEO/AA/M/F/D/V.

The New York Hospital-Cornell Medical Center

GUAM MEMORIAL HOSPITAL AUTHORITY-TAMUNING, GUAM

Guam Memorial Hospital, a 192 Acute Care and Skilled Nursing Facility is accepting applications for the following position:

Position Title: Nuclear Medicine Technologist

Salary: $28, 678- $43,018

Necessary Special Qualifications: A current certificate of registration as a Registered Nuclear Medicine Technologist by either the American Registry of Radiologic Technologists, the Nuclear Medicine Technologist Certification Board or by any other equivalent certification board approved and/or recognized by the American Medical Association.

Attractive salary and benifits includes but is not limited to: paid vacation, sick leave, options for Government of Guam-sponsored retirement plan or FICA, health, dental and life insurance plans and 14 paid holidays.

Please send all inquires/resumes to: Guam Memorial Hospital Authority, Personnel Services, 850 Gov. Carlos Camacho Rd., Tamuning, Guam 96911, (671) 646-6711 through 19. Fax: (671) 649-0145.

"An Equal Opportunity Employer"

The Society of Nuclear Medicine

Organization

The Society of Nuclear Medicine (SNM) is a multi-disciplinary organization of physicians, physicists, chemists, radiopharmacists, technologists, and others interested in the diagnostic, therapeutic, and investigational use of radiopharmaceuticals. Founded in Seattle, Washington in 1954, it is the largest scientific organization dedicated to nuclear medicine.

Objectives

Maintain an organization supported by professionals of varied backgrounds who have a common interest in the clinical and scientific discipline of nuclear medicine;

- Hold meetings and seminars to communicate new knowledge acquired and provide continuing medical education;
- Advance the highest standards in the practice of nuclear medicine;
- Disseminate information by means of journals, books, monographs, and audiovisuals;
- Promote and maintain the highest standards of education and research;
- Address socio-economic and governmental issues that may significantly affect the nuclear medicine profession.

The Society of Nuclear Medicine

Membership Categories

FULL members are physicians or scientists with an advanced degree who have valid credentials indicating their professional interest: either medical, paramedical, investigational, or educational, in the scientific or clinical disciplines concerned with the use of radionuclides. Members have the right to vote and to hold elective office.

ASSOCIATE members are scientists or technologists with a BA, BS or equivalent qualifications as determined by the Committee on Credentials and Membership, and who have valid credentials indicating their professional interest, either paramedical, investigational, or educational, in the scientific or clinical disciplines concerned with the use of radionuclides. Associate members have the right to vote but may not hold elective office, unless otherwise provided.

TECHNOLOGIST members have valid credentials indicating their professional interest, either paramedical, investigational, or educational, in the technology of the scientific or clinical disciplines concerned with the use of radionuclides. Technologist members do not have the right to vote or to hold elective office, unless otherwise provided. They do, however, become automatic members of the Technologist Section and have voting rights in the Section.

AFFILIATE members are persons who have an active interest in the objectives of the Society and who are not qualified for other categories of membership. Affiliate members are not eligible for in-training status.

IN-TRAINING members must present adequate documentation that they are in-training and qualify for a category of membership other than Affiliate. In-training members may not vote or hold elective office and pay annual dues at a reduced rate. Upon completion of an in-training program membership is automatically upgraded to that of a regular member.

Chapters

The Society is composed of fifteen regional chapters comprising the United States and Canada. Members who do not reside in this geographic area are categorized as "members-at-large."

Benefits of Membership

The Journal of Nuclear Medicine: a subscription to the official publication of The Society of Nuclear Medicine and the most prominent journal in the field. Published monthly, it provides the membership with up-to-date information on current developments in nuclear medicine.

Annual Meetings: discounts to scientific, clinical, and continuing education presentations, as well as commercial exhibits, to keep abreast of the latest developments.

Membership Directory: distributed biannually, at no extra cost, to the entire membership.

Books and Monographs: discounts on selected new topics published by the Society.

Audiovisuals: discounts on slide/tape programs covering a wide variety of subjects designed for classroom use and self-instruction.

Awards: presented to Society members for outstanding achievements and contributions to the field.

Continuing Education Credit: for meeting courses, audiovisuals, and exhibits, approved for AMA Category 1 credit.

Research and Fellowship Support: through SNM Education and Research Foundation.

Effective Government Relations: through committees and lobbying efforts.

Insurance Plans: disability income, and catastrophic major medical insurance programs.

Car Rental: discounts on Avis car rentals.

Credit Cards: MasterCard is available to eligible members.

SNM Councils

The Society has established special interest Councils to satisfy the needs of individual disciplines in nuclear medicine. Councils are available to all SNM members and function autonomously within the Society.

The objectives of the **ACADEMIC COUNCIL** are: (1) to promote medical education, research, and patient care related to nuclear medicine; (2) to develop better methods of undergraduate and graduate teaching of nuclear medicine; and (3) to provide a forum for discussion of problems of mutual interest and concern, as well as an informal exchange of ideas and programs. Within the Council there is a subgroup of directors of nuclear medicine residency training programs who confer at least annually with the ABNM on areas of mutual interest.

The **BRAIN IMAGING COUNCIL** was established to bring together those physicians and scientists with an interest in brain imaging using radiopharmaceuticals. The Council provides a forum whereby information relating to brain imaging may be discussed and disseminated and also provides a mechanism for the promotion and encouragement of basic brain imaging research and development.

The **CARDVIOVASCULAR COUNCIL** consists of Society members interested in the performance and application of cardiovascular nuclear medicine procedures. It seeks to provide a forum for discussion and development of cardiac scintigraphic methods in an effort to realize the most beneficial applications. The Council actively seeks individuals who share this goal.

The **COMPUTER and INSTRUMENTATION COUNCIL** is made up of Society members who have an interest in computers and their application in the diagnostic, therapeutic, and investigative areas of nuclear medicine. It provides a source of information relating to computer science and instrumentation to the Society membership through meetings and publications, as well as promoting the advancement and dissemination of knowledge in this area.

The **CORRELATIVE IMAGING COUNCIL** provides a structure in which clinicians and scientists can develop and disseminate information on the medical and physiological applications of various imaging modalities as they correlate to nuclear medicine.

The **PEDIATRIC IMAGING COUNCIL** provides a conduit for the dissemination of information relating to pediatric nuclear medicine. Individuals involved in pediatric scintigraphic imaging meet and discuss pertinent issues. The Council also serves as liaison to pediatric imaging organizations and to advance research and education.

The **RADIOASSAY COUNCIL** maintains the scientific, economic, and historic elements of the radioassay discipline within the Society.

The **RADIOPHARMACEUTICAL SCIENCE COUNCIL** provides a forum for discussion and dissemination of information relating to the radiopharmaceutical sciences and promotes and encourages basic radiopharmaceutical research and development within the Society. It publishes a newsletter and holds periodic meetings on special subjects.

The **THERAPY COUNCIL** is composed of physicians with special interests and expertise in the development of new treatments for both benign and malignant disorders. The council's goals are the promotion of research, teaching, and clinical use of this modality.

The Technologist Section

About the Technologist Section

The Technologist Section of The Society of Nuclear Medicine was formed in 1970 to meet the needs of the nuclear medicine technologist. It is a scientific organization formed with, but operating autonomously from, the Society to promote the continued development and improvement of the art and science of nuclear medicine technology.

The ongoing objectives of the organization are to enhance the development of nuclear medicine technology, to stimulate continuing education activities, and to develop a forum for the exchange of ideas and information. The Technologist Section provides nuclear medicine technologists with a mechanism to deal directly with issues that concern them (for example, special committees are devoted to continuing education, academic affairs, socioeconomic issues, and other issues of importance).

Membership Categories

REGULAR membership in the Section will be open to any member of the Society, regardless of category, who can provide evidence of training and/or experience in nuclear medicine technology satisfactory to the Membership Committee of the Section. Members pay dues, receive the official publication of the Section, have the right to vote on all issues presented to the membership, and may serve on the National Council or as an officer of the Section.

STUDENT/MEMBERS IN-TRAINING are persons enrolled in a training program in nuclear medicine technology and certified as students by the director of training for that institution. They pay reduced rates, receive all publications of the Section, and may hold office by appointment only.

Benefits of Membership

Journal of Nuclear Medicine Technology: a quarterly subscription.

The right to vote and hold elective office in the Section.

Local networking with regional chapters and representation through the National Council.

Legislative representation on both local and national issues.

Enrollment in the computerized continuing education accounting system, VOICE.

Annual Meetings, which include scientific and continuing education sessions, workshops, and scientific exhibits at member discounts.

Books, educational aids, and audiovisuals at member discounts.

Awards for outstanding achievements and contributions to technologist meetings, publications, and exhibits.

Any individual interested in membership in the SNM and its Technologist Section can apply by filling out the application form included in the brochure. Any SNM member may become a member of the Section by calling or writing the Membership Department in the Central Office.

For further information please contact:
Membership Department
SOCIETY OF NUCLEAR MEDICINE
1850 Samuel Morse Drive
Reston, VA 22090-5316
(703) 708-9000 • Fax: (703) 708-9015

Society of Nuclear Medicine

Instructions to Application for Membership

- Print or type the enclosed application form. Be sure to complete all requested information in order to avoid delays in processing.
- The membership category you select will be reviewed based on the information you provide and in accordance with Society By-laws.
- To be eligible for "In-Training" status, at least 90 days must be remaining in your formal training program and your application must be accompanied by a letter signed by your program director confirming your student status. No application processing fee is required.
- Upon acceptance by the Society, you will automatically become a member of the regional chapter that covers your area of residence. If you wish membership in another chapter submit a request with your application. This pertains only to members who live in the United States and Canada. All other members are classified as Members-at-Large.
- Forward the completed application with a $10.00 non-refundable processing fee.
- Receipt of your application will be acknowledged. Allow 4-6 weeks for processing and for receipt of journals.

•**DO NOT** prepay your dues. An invoice will be sent to you upon approval of your application.

Guide to Membership Dues—1995

Categories of Membership —There are four basic categories of membership in the Society of Nuclear Medicine. (Descriptions are located on the front page of this application.)

Students — Students are considered In-Training and are charged half the regular membership rate in the appropriate membership category.

Doctorate Degrees — Members with Doctorate Degrees (MD, DO, PhD) who also belong to the Technologist Section are charged a different rate from those without Doctorate Degrees.

Technologist Section — All members of the Technologist Section must belong to the Society of Nuclear Medicine. All dues paid by Technologist Section members who do not possess a Doctorate Degree are credited to the Technologist Section.

Membership Categories	Total
Full (MD, DO, PhD)	$195.00
Associate	120.00
Associate with Tech Section	83.00
Technologist (Tech members automatically become Tech Section members.)	68.00
Affiliate	145.00
Affiliate with Tech Section	83.00

- **In-Training Membership—Offered to eligible members for approximately half the cost of dues charged to regular members.**
- **Chapters—In addition to regular membership dues, chapter dues are charged for both Society and Technologist Section members. A dues table is available upon request.**
- **Prorated Dues—Dues for those applicants joining during the current year are prorated to the following January.**

Contributions or gifts to the Society of Nuclear Medicine, Inc. are not deductible as charitable contributions for federal income tax purposes. Dues payments are deductible by members as an ordinary and necessary business expense.

Pending FDA clearance in USA.

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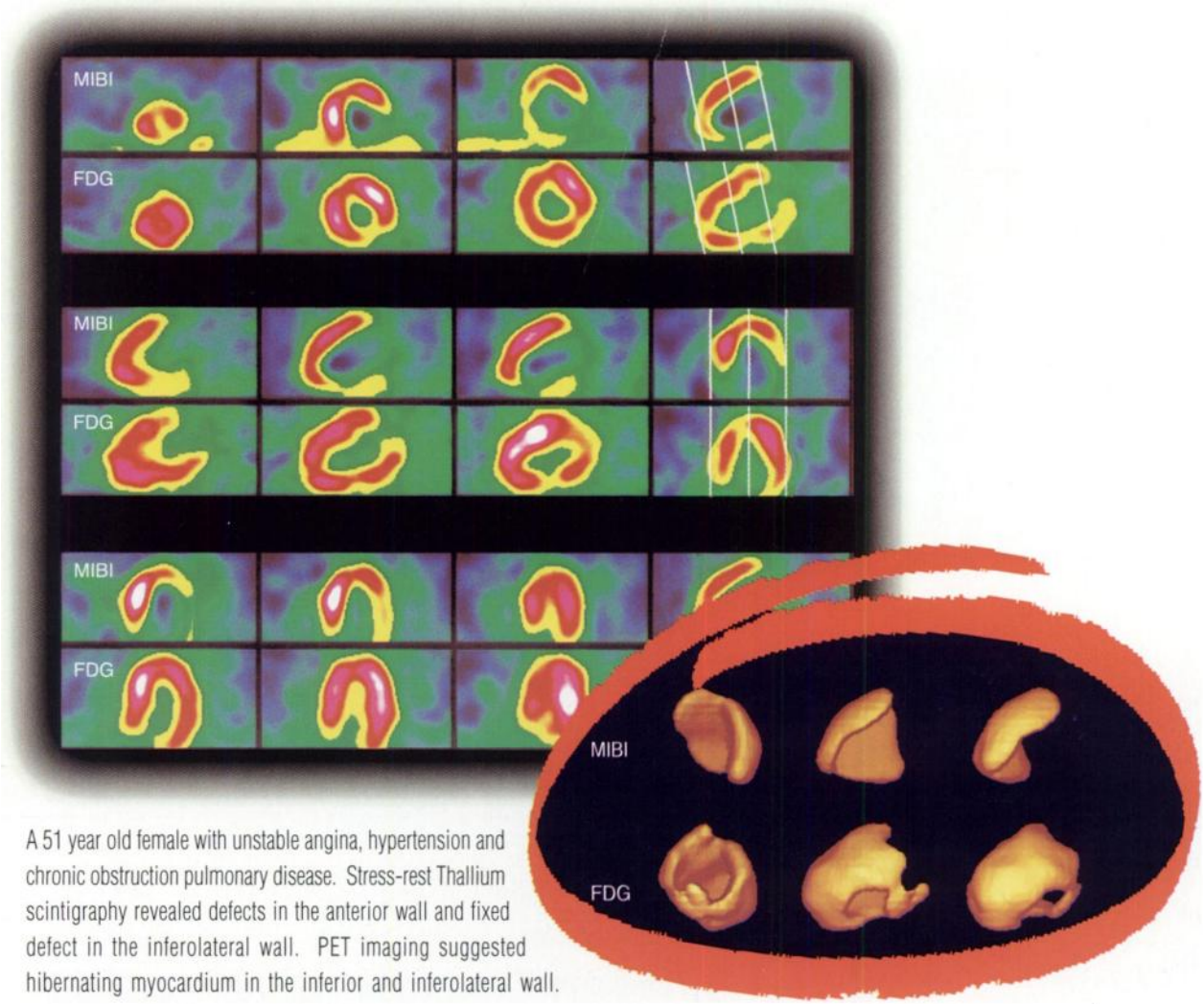

A 51 year old female with unstable angina, hypertension and chronic obstruction pulmonary disease. Stress-rest Thallium scintigraphy revealed defects in the anterior wall and fixed defect in the inferolateral wall. PET imaging suggested hibernating myocardium in the inferior and inferolateral wall.

clinical image courtesy of **Vanderbilt University Medical Center, Nashville, TN**

Helix high-versatility digital camera design provides optimal imaging performance for every isotope and energy level , up to **511 keV. Simultaneous dual-isotope SPECT acquisition of ^{18}F-FDG and ^{99m}Tc MIBI** potentially enhances the assessment of **myocardial viability - at half the conventional scanning time.**

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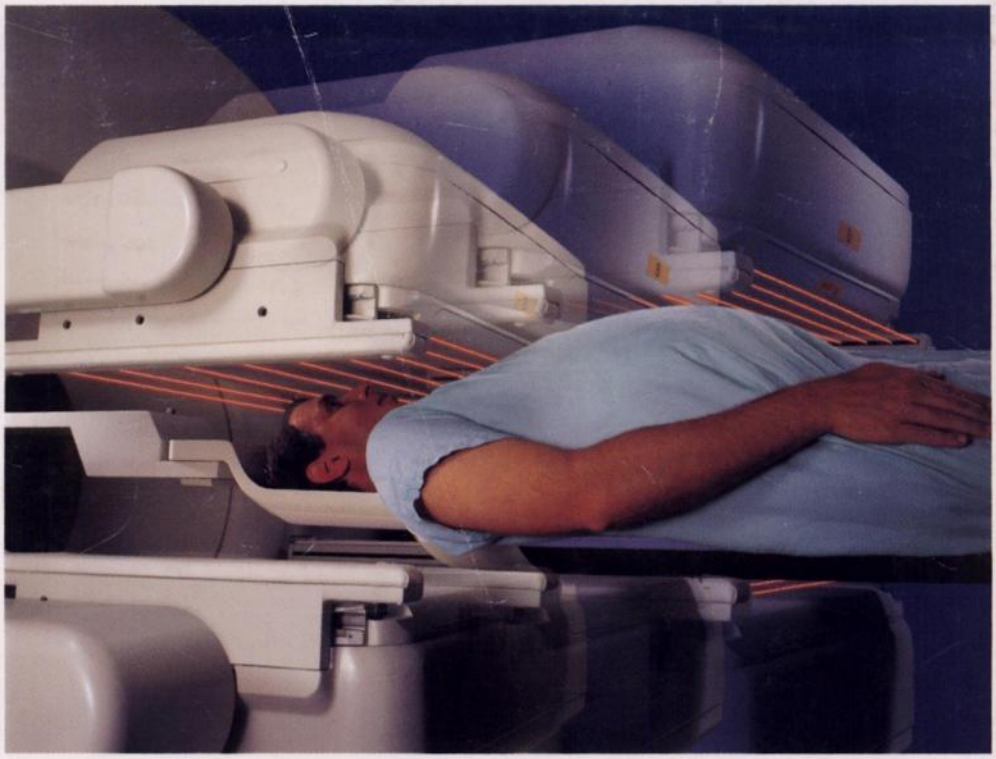

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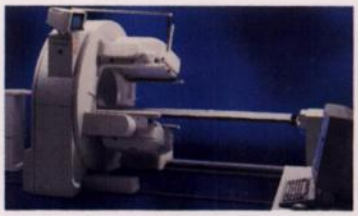

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