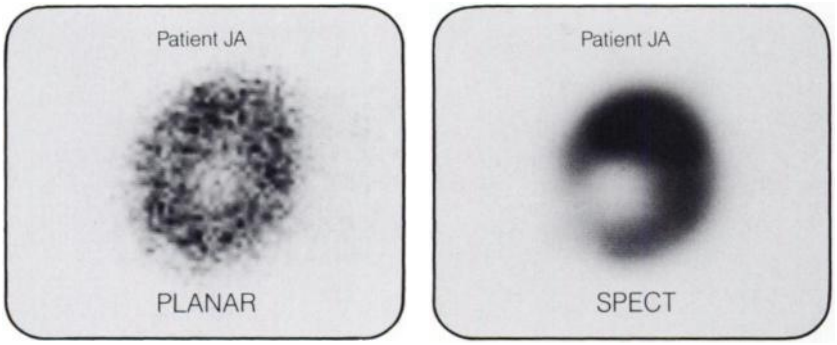
Cooperative ventures among professionals, providers thrive in the new era of DRGs.

Medi-Physics' Profe



Improve Image Quality

Video Consultation #1: *"Tomographic Thallous Chloride Tl 201 Imaging"*

Tomography expert
Ronald L. Van Heertum, MD
Chief, Section of Nuclear Medicine / Assistant Director, Department of Radiology,
St. Vincent's Hospital & Medical Center, New York, NY

Additional video consultations available soon

"Thallium 201 Quantification"
E. Gordon DePuey, MD
Clinical Director of Nuclear Medicine, and
Ernest V. Garcia, PhD
Director of Nuclear Medicine Physics
Emory University Hospital
Atlanta, GA

"Analyzing Thallium 201 Imaging Problems"
Robert E. Henkin, MD
Director, Nuclear Medicine
Loyola Medical Center
Maywood, IL

"Clinical Correlation Update"
Gerald M. Pohost, MD
Director of Cardiovascular Disease
University of Alabama Medical Center
Birmingham, AL

Thallous Chloride Tl 201

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

DESCRIPTION: Thallous Chloride Tl 201 is supplied in isotonic solution as a sterile, nonpyrogenic diagnostic radiopharmaceutical for intravenous administration. The aqueous solution at calibration time contains 37 MBq (1 mCi)/mL Thallous Chloride Tl 201 adjusted to pH 4.5-6.5 by the addition of hydrochloric acid and/or sodium hydroxide solution. It is made isotonic with 0.9% sodium chloride and is preserved with 0.9% benzyl alcohol. Thallium Tl 201 is cyclotron-produced with no carrier added. Radionuclidic purity at calibration is at least 97.0%.

INDICATIONS AND USAGE: Thallous Chloride Tl 201 may be useful in myocardial perfusion imaging for the diagnosis and localization of myocardial infarction.

It may also be useful in conjunction with exercise stress testing as an adjunct in the diagnosis of ischemic heart disease (atherosclerotic coronary artery disease).

It is usually not possible to differentiate recent from old myocardial infarction, or to differentiate exactly between recent myocardial infarction and ischemia.

CONTRAINDICATIONS: None known.

WARNINGS: If studying patients in whom ischemia or myocardial infarction is known or suspected, care should be taken to assure continuous clinical monitoring and treatment in accordance with safe, accepted procedure. Exercise stress testing should be performed only under the supervision of a qualified physician and in a laboratory equipped with appropriate resuscitation and support apparatus.

PRECAUTIONS: Data are not available concerning the effect on the quality of Thallous Chloride Tl 201 scans of marked alterations in blood glucose, insulin, or pH (such as is found in diabetes mellitus). Attention is directed to the fact that thallium is a potassium analog, and since the transport of potassium is affected by these factors, the possibility exists that thallium may likewise be affected. Data are not available concerning the effect of drug treatment (such as antihistamines and cimetidine, either alone or in combination).

A myocardial imaging study was unsuccessful in one clinical study involving a patient taking cortisone and cimetidine the day of the study.

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 governmental agency authorized to license the use of radionuclides.

As in the use of any radioactive material, care should be taken with Thallous Chloride Tl 201 to minimize radiation exposure to the patient consistent with proper management and to ensure minimal exposure to occupational workers.

This drug should not be used after the expiration date on the label. The expiration date will be six (6) days or less after the calibration date.

Do not use if contents are turbid.

It is recommended that the product be administered close to calibration time to minimize the effect of higher levels of radionuclidic contaminant pre- and post-calibration.

Carcinogenesis: No long-term animal studies have been performed to evaluate carcinogenic potential, mutagenicity potential, or whether Thallous Chloride Tl 201 affects fertility in males or females.

Pregnancy Category C: Adequate reproduction studies have not been performed in animals to determine whether the drug affects fertility in males or females, has teratogenic potential, or has other adverse effects on the fetus. Thallous Chloride Tl 201 should not be used in pregnant women except when benefits clearly outweigh the potential risks.

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

Nursing Mothers: It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, as a general rule nursing should not be undertaken when a patient is administered radioactive material.

Pediatric Use: Safety and effectiveness in children below age 18 have not been established.

ADVERSE REACTIONS: A single adverse reaction to Thallous Chloride Tl 201 product has been reported consisting of hypotension accompanied by pruritis and rash which responded to antihistamines and steroids within one hour.

HOW SUPPLIED: Thallous Chloride Tl 201 for intravenous administration is supplied as a sterile nonpyrogenic solution containing at calibration time 37 MBq (1 mCi)/mL Thallium 201, 9 mg/mL sodium chloride and 9 mg/mL of benzyl alcohol. The pH is adjusted to between 4.5-6.5 with hydrochloric acid and/or sodium hydroxide. This product is supplied in a 244 MBq (6.6 mCi) size. Each package contains one vial.

The contents of the vial are radioactive. Adequate shielding and handling precautions must be maintained.

STORAGE: Store Thallous Chloride Tl 201 at 18-25° C.

Manufactured for Medi-Physics by Squibb Diagnostics.
May 1987

and suppliers have helped hospitals and other specialists
Now, it's nuclear medicine's turn.

ssional Partnership Program

Complete ***teaching rounds program***

- ☐ ***35mm slides with lecture outline***
- ☐ ***Monographs for distribution at rounds to referring physicians for CME credits***
- ☐ ***Support materials to stimulate high interest and participation***

Generate Profitable Referrals

Referring MD Education Program #1:
"Evaluation of the Patient with Suspected Coronary Disease"

Imaging expert
William L. Ashburn, MD
Director, Nuclear Medicine/Professor of Radiology,
University of California, San Diego, Medical Center

Referral-generation programs to follow

"Evaluation of the Patient with Unexplained Bone Pain"
B. David Collier, MD
Chief of Nuclear Medicine
Medical College of Wisconsin
Milwaukee, WI

"Evaluation of the Patient with Suspected Hepatobiliary Disease"
Heidi Weissmann, MD
Associate Professor of Nuclear Medicine and Radiology
Albert Einstein College of Medicine
Montefiore Hospital and Medical Center
Bronx, NY

"Evaluation of the Patient with Suspected Renal Disease"
Naomi Alazraki, MD
Co-director, Division of Nuclear Medicine
Emory University Hospital
Atlanta, GA

To learn how your department can join the Medi-Physics Professional Partnership Program, contact your local Medi-Physics representative, or call **1-800-MEDI-123.**

Your partner in advancing nuclear medicine

medi+physics®

ROCHE®

a subsidiary of Hoffmann-La Roche Inc.

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

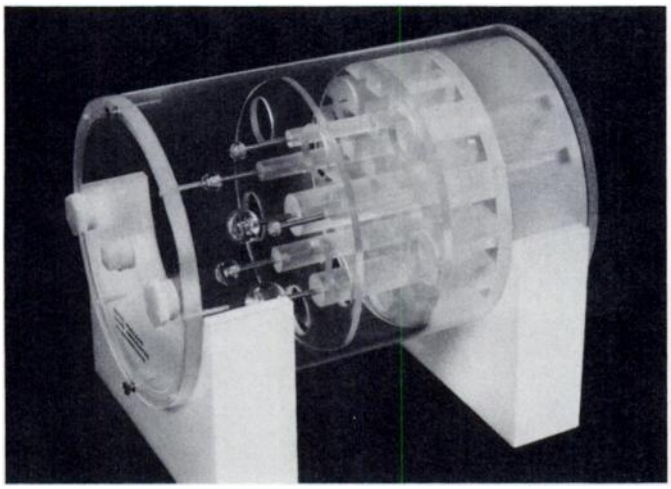
Please see adjacent page for brief summary of prescribing information.

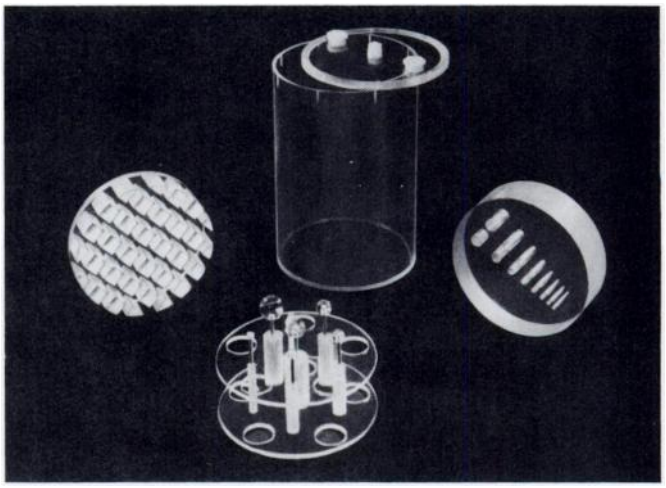
Circle Reader Service No. 1

Easy to Use...Easy to Interpret

PET/SPECT Performance Phantom*

For Testing Photon Emission CT Systems





- **Measures resolution, linearity and uniformity.**
- **Provides "hot" and "cold" simulated lesions.**

Photon emission computed tomography (PET/SPECT) systems, like any imaging apparatus, require periodic performance testing. This modular phantom is designed to provide the data for such evaluations. It offers a single system for measuring resolution, linearity and uniformity. All components of the phantom fit into an optional, clear-acrylic source tank which can be filled with a ^{99m}Tc-and-water solution similar to that used for routine flood uniformity testing.

The set of three inserts includes two for resolution (one with "cold" lesions in a "hot" field and one with "hot" lesions in a "cold" field) and one for linearity/uniformity measurements. The visibility of all lesions can be varied by adjusting the concentration of radioisotope in the tank.

*Designed and developed by Ray A. Carlson, Hutzel Hospital, Detroit, MI, and Jeffrey T. Colvin, St. Joseph Mercy Hospital, Ann Arbor, MI.

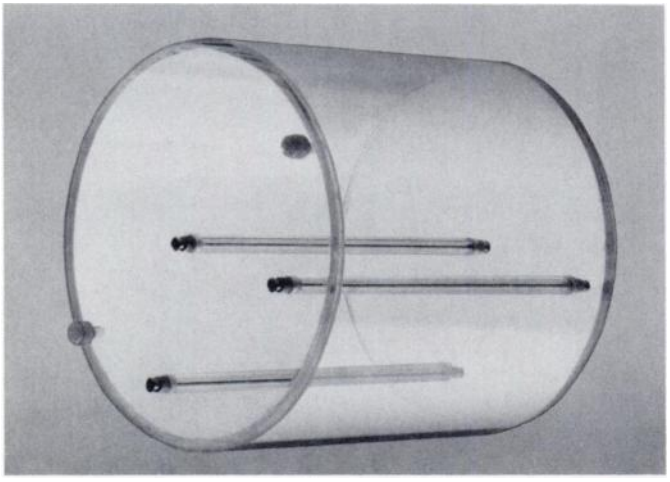
SPECT System

SPATIAL RESOLUTION PHANTOM

Conforms to the New NEMA Standard "Performance Measurements of Scintillation Cameras"

- **Measures Line Spread Function.**
- **Fits and tests all SPECT systems under clinical conditions.**
- **Built to NEMA specifications.**

FREE OFFER
Call or write for a free copy of the NEMA "Guide to Revised Standards for Performance Measurements of Scintillation Cameras," 1986, 8 pp.



Circle Reader Service No. 2

For more details on the PET/SPECT or Spatial Resolution Phantoms, request Bulletin SP-35

NUCLEAR ASSOCIATES

VICTOREEN

A Division of VICTOREEN, INC.
100 VOICE ROAD
CARLE PLACE, NY 11514-1593
(516) 741-6360
A Subsidiary of Sheller-Globe SG

SIEMENS

Beyond Imaging

Beyond each imaging modality and support service we offer there is a commitment to be in touch with the state of your art...and with you, the professionals who practice it.
Once a year the RSNA gives us that opportunity.

A time for professional enrichment. The exchange of ideas. A welcome chance to learn more about your requirements for tomorrow. And the opportunity to show you the technological advancements and services we have today.

Computed tomography • PACS • Lithotripsy • Linear accelerators • Magnetic resonance • Therapy planning • Mobile image intensifier • Diagnostic ultrasound • X-ray mammography • R/F systems • Data management • Education programs • Digital imaging • Therapy simulator • Uro-radiology • Mobile MR • Nuclear medicine • Site planning • Service plans • Mobile CT • Cardiovascular imaging • Financial services • Mobile X-ray • Preventive maintenance • Special procedures • Health physics • Diagnostic imaging centers • In-service education • Positron emission tomography • Bone mineral densitometry

MG-5000-133 WLM 848

Circle Reader Service No. 4

Producing a stronger bond
to revolutionize cancer detection and treatment.

Because of their ability to seek out and attach to cancer cells within the body, monoclonal antibodies offer tremendous potential for use in detecting and treating cancer.

Up to now, however, this potential has not been fully realized because of the failure to develop an effective means for attaching diagnostic and therapeutic agents to the monoclonals.

Today at NeoRx, we are overcoming this obstacle as the result of our proprietary technology for producing ligands, a chemical "superglue" used to bond agents to antibodies.

The ability to produce this stronger bond between monoclonal antibodies and various agents establishes NeoRx as a leader in the development of cancer imaging and treatment products.

When we introduce our first imaging product—planned for 1988—we will take the first step toward achieving our twin goals of improving efficacy and decreasing toxicity in the diagnosis and treatment of cancer patients.

NEORX™
THE VITAL CONNECTION™

NEORX CORPORATION
410 West Harrison
Seattle, Washington 98119
(206) 281-7001

You don't make this unit dose.

Why make this one?

Imagine what it would take to make your own pharmaceuticals—material costs, special equipment, more space, rigid regulations, quality control, higher liability, more paperwork—and so much time.

So you don't make your own pharmaceuticals. At 5,000 nuclear medicine facilities nationwide, professionals with the same concerns have decided not to compound their own radiopharmaceuticals. Syncor provides them with prompt delivery of unit dose radiopharmaceuticals whenever they need them, day or night.

As a full service Syncor customer, instead of spending your time on generator elution, kit preparation, quality control and paperwork, you will use your skills where they are most needed: performing or interpreting studies, improving scan techniques and working with patients. At the same time, your radiation exposure will be minimized and waste disposal will no longer be a problem.

All of which means a more cost effective, efficient, responsive department for you.

Call us and discover how well our local pharmacies, backed by the resources of the industry leader, can serve you.

syncor®

When Caring Is Called For

Syncor International Corporation

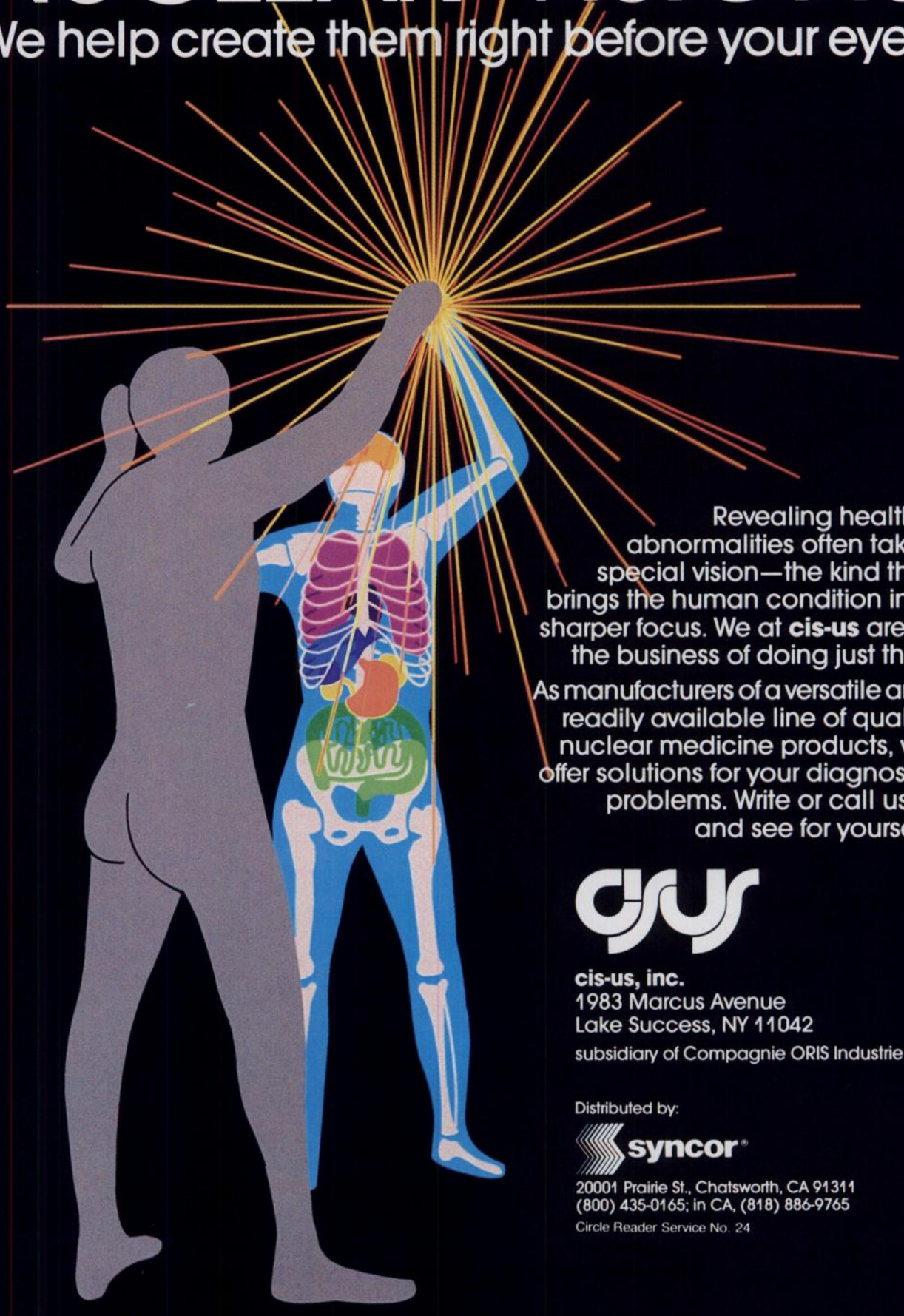
Chatsworth, California 91311

(818) 886-7400 • (800) 435-0165

Circle Reader Service No. 10

NUCLEAR VISIONS

We help create them right before your eyes



Revealing health's abnormalities often takes special vision—the kind that brings the human condition into sharper focus. We at **cis-us** are in the business of doing just that.

As manufacturers of a versatile and readily available line of quality nuclear medicine products, we offer solutions for your diagnostic problems. Write or call us—and see for yourself.

cis us

cis-us, inc.
1983 Marcus Avenue
Lake Success, NY 11042
subsidiary of Compagnie ORIS Industrie S.A.

Distributed by:

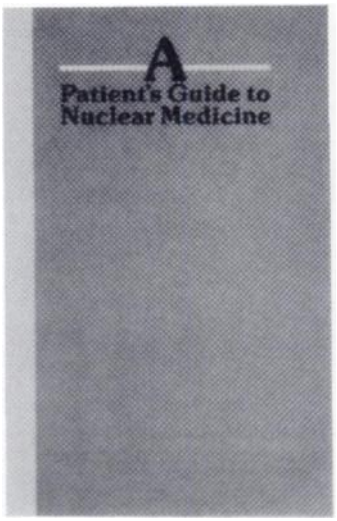
syncor®

20001 Prairie St., Chatsworth, CA 91311
(800) 435-0165; in CA, (818) 886-9765

Circle Reader Service No. 24

Educate your patients with SNM's Patient Information Pamphlets

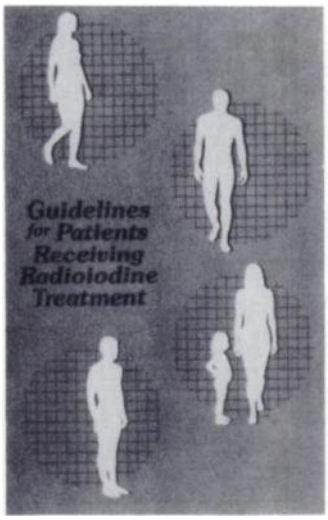
A Patient's Guide to Nuclear Medicine



Well illustrated, this 16-page pamphlet explains what nuclear medicine is, how the procedures are performed, and how they can help in the early detection of disease.

Divided into 3 sections, the guide opens with a general overview of nuclear medicine. A question-and-answer section follows, addressing such topics as safety, the benefits of nuclear medicine procedures, pre- and post-instructions, and testing of pregnant women and children. The third section explains some of the more commonly performed procedures such as bone, liver, lung, heart, and thyroid uptake scans.

16 pp; 5½ × 8½; in 2 colors;
25¢ per pamphlet; minimum order: 100 copies



See SNM's other publications at RSNA Booth No. 3501

Guidelines for Patients Receiving Radioiodine Treatment

Prepared in collaboration with the U.S. Nuclear Regulatory Commission, this 8-page pamphlet answers patients' questions about home care after receiving radioiodine treatment for thyroid conditions.

Easy-to-read language outlines important precautions patients can follow to help reduce radiation exposure to others. It also contains a checklist that physicians can review with their patients to determine which guidelines are appropriate for them and how they should be followed.

8 pp; 5½ × 8½; in 2 colors;
30¢ per pamphlet; minimum order: 25 copies

Healthcare professionals in private practice, hospitals, and clinics will find that these pamphlets provide a brief, attractive, and inexpensive way to educate patients and their families about the importance and safety of nuclear medicine procedures.

TO ORDER: Single copies are available for review at $1.50 each. All prices include postage and handling. Prepayment required in U.S. funds drawn on U.S. banks only. Make checks payable to: The Society of Nuclear Medicine. *Prices are in U.S. dollars and subject to change without notice.*

THE SOCIETY OF NUCLEAR MEDICINE
Book Order Dept. 1187J, 136 Madison Avenue, New York, NY 10016-6760

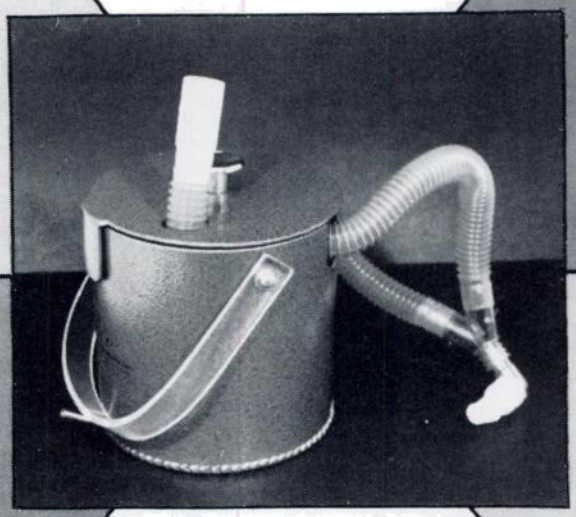
Circle Reader Service No. 177

AeroTech I

Dual Use

- ROUTINE AEROSOL IMAGING
- RESPIRATOR PATIENTS

MULTIPLE VIEWS



- ACCESSORIES AVAILABLE
- PORTABLE
- SIMPLE HOOK-UP

for information and free Lung Imaging Guide –

Call 800-4-Cadema

N.Y. State (914) 343-7474

Cadema Medical Products, Inc.

P.O. BOX 250, MIDDLETOWN, N.Y. 10940

Circle Reader Service No. 19

Guess whose Nuclear Medicine

Elscint, Ltd., Advanced Technology Center, Haifa, Israel; also Australia, Belgium, Brazil, Canada, France, Germany, Great Britain, Hong Kong, Italy, Mexico, Peru, South Africa, Spain, Venezuela.

Systems are preferred in Toronto?

With more than 30 Apex Systems installed in greater Toronto, Elscint clearly dominates the landscape. The reasons are just as apparent: Superior images, superior hardware, superior software.

As Sylvain Houle, M.D., Ph.D. of Toronto General Hospital says: "Finally, a language tailored to Nuclear Medicine applications. No more black box-type programs."

Doctor Houle should know. After all, Toronto General has five Apex Nuclear Medicine systems. So far.

Elscint **NM™** ***Focused on the future.***

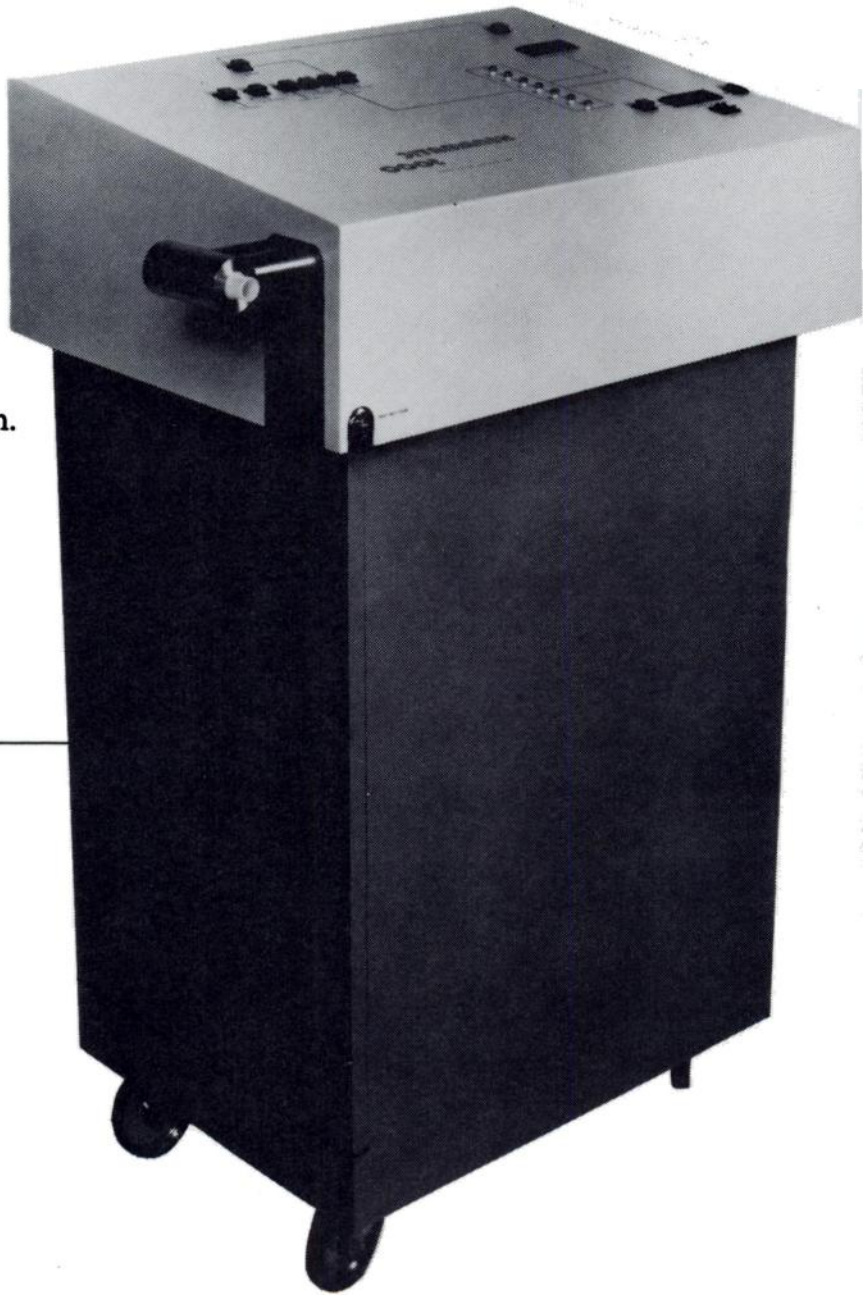
Elscint, Inc., 930 Commonwealth Ave., Boston, MA 02215 Tel: 1 617 739-6000

Circle Reader Service No. 36

IN A FOG??

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.
- Largest and most efficient Xenon trap with a built-in monitor alarm system.
- Built-in O_2 monitor with digital display and control.
- A rebreathing system that saves Xenon.
- Low breathing resistance so you can study sick patients.
- Semi-automatic operation.
- Remote Control Capability.



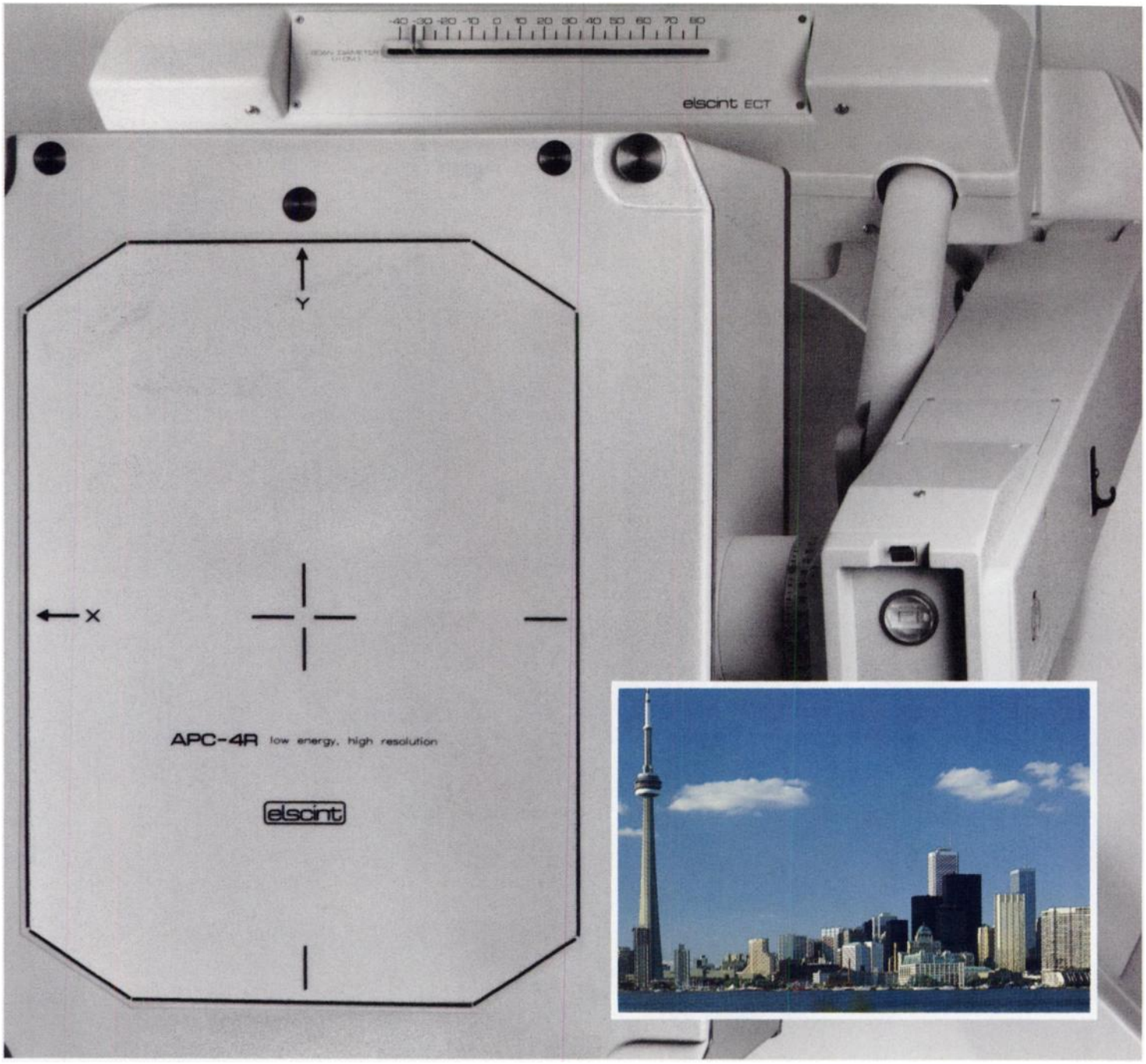
Get out of the FOG-making business, and call today for more information on putting gases where gases belong, with the XENAMATIC.

Also available, Model 2000.

For more information, please call or write,

DIVERSIFIED DIAGNOSTIC PRODUCTS, INC.
11603 Windfern
Houston, TX 77064
713-955-5323

Circle Reader Service No. 33



Elscint Apex: Bringing Nuclear Medicine technology to new heights in Toronto.

Toronto's most stunning examples of advanced architecture aren't part of its skyline. Rather, they can be seen in major hospitals and clinics around town in the form of Apex Nuclear Medicine systems from Elscint.

Designed around its own patented digital architecture, only Apex is flexible enough to do all this with the same system: SPECT, high-resolution imaging, and fast dynamic scans (such as first pass cardiology studies). This innovative design also makes Apex the most flexible PACS configuration available anywhere in the world.

The more than 30 Nuclear Medicine systems in greater Toronto alone confirm the overwhelming acceptance of Apex' superior design. Because only Apex fills such a tall order.

***Elscint* NM™**

Focused on the future.

Circle Reader Service No. 36

Elscint, Inc., 930 Commonwealth Ave., Boston, MA 02215 Tel.: 617 739-6000

Elscint, Ltd., Advanced Technology Center, Haifa, Israel. Also Australia, Belgium, Brazil, Canada, France, Germany, Great Britain, Hong Kong, Italy, Mexico, Peru, South Africa, Spain, Venezuela.

Think Nuclear Imaging Equipment Constraints Are Keeping You from the Best?

System capability. So necessary! But too often limited. ***Cost containment.*** So frustrating! And so restrictive!

Think Again!

Now...a superior-quality system that answers both sides of the imaging dilemma: system capability and cost containment

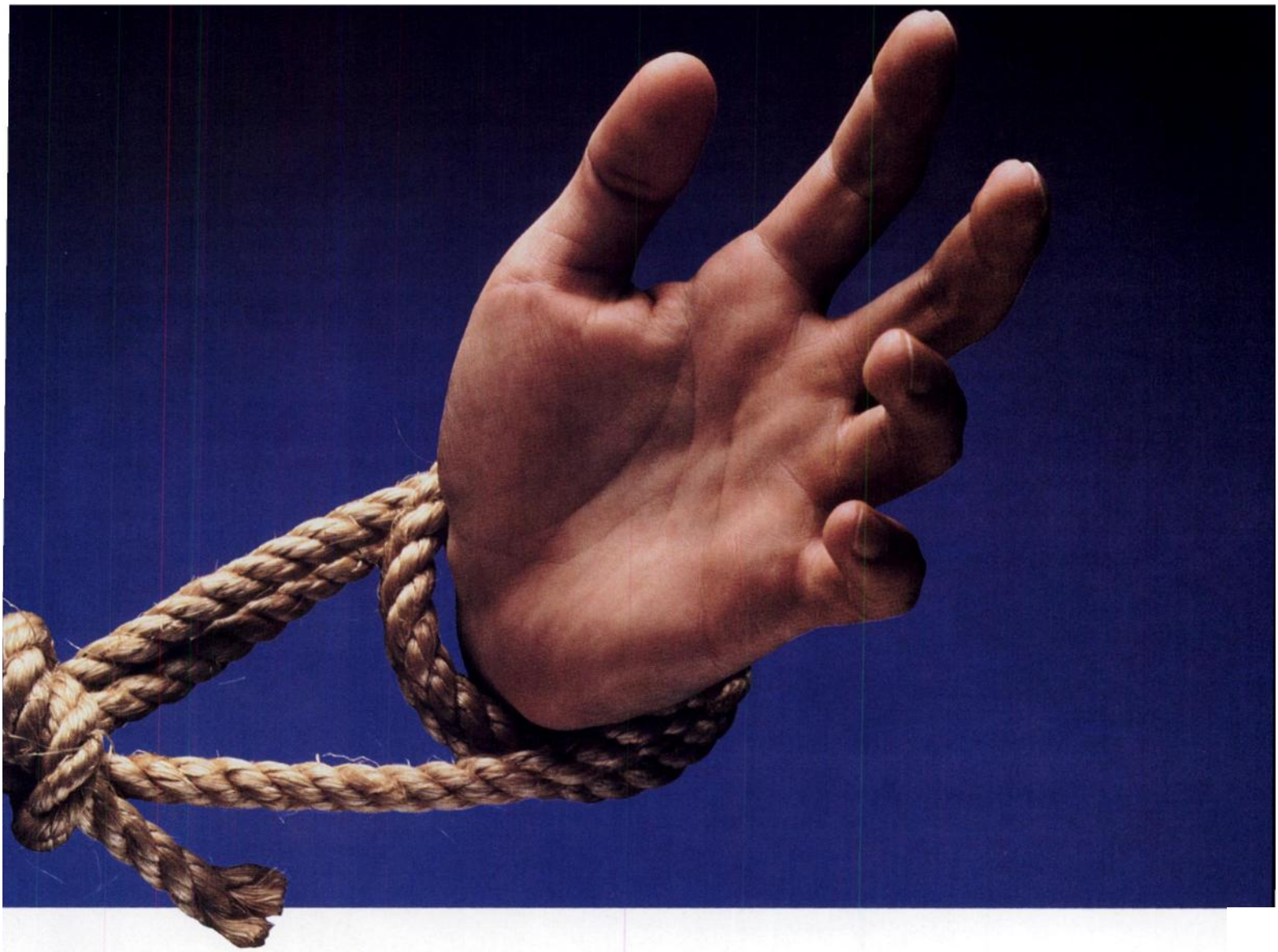
Yet, these are unavoidable everyday realities for your department.

Even so, there's no need to settle for second best. Instead, take a look at Raytheon's Spectrum 150 Series Digital Nuclear Imaging Systems.

With the 150 Series you can have the advantages of a superior-quality system that helps achieve short-term and long-term cost containment goals.

The drawbacks of so-called lower-initial-cost systems are obvious. Limited capability and undesirable downtime frequently override any initial savings, turning a "bargain" system into an unwanted strain on the departmental budget.

*Data on file, Raytheon Medical Systems



Raytheon's Spectrum 150 Series offers you:

- ***Capability*** to do a full range of imaging procedures
- ***Durability***—typically greater than 96% uptime documented in clinical use*
- ***Upgradability*** that allows the Spectrum 150 Series to challenge state-of-the-art

The 150 Series' advantages are available in two versatile systems. Both totally digital. Both supported by complete application software. Both provide more versatility than analog systems or systems that convert from analog to digital.

Spectrum 150-DT™ Digital Nuclear Imaging System

Spectrum 150-DFR™ Digital Nuclear Imaging System

Spectrum 150-DT™ offers the greatest flexibility. It performs multiangular SPECT (including body contouring); full PLANAR, with Multimatrix, Static, Interval Static and Dynamic Imaging; and Single-Pass, Whole-Body Imaging.

For traditional imaging only, Spectrum 150-DFR™ is a full-featured system offering full PLANAR and Single-Pass, Whole-Body Imaging.

The product you want... the service you want... the technical support you want

We're part of a 7-billion-dollar multinational company that believes quality starts with fundamentals. Our fundamental strength will serve you well in areas important to you: *product, service, technical support.* One year from now. Or ten years from now.

For further information, contact your local Raytheon representative, or call: Raytheon, Medical Equipment Division, 2020 N. Janice Avenue, Melrose Park, IL 60160. 1-800-323-2213, 1-312-865-2600.

Raytheon

Where quality starts with fundamentals

Circle Reader Service No. 62

Announcing

A new member of the Medi-Physics Kit Family

In our continuing efforts to provide you with the most complete line of kits in the industry, Medi-Physics is pleased to announce the addition of the MPI Pyrophosphate Kit, Kit for the Preparation of Technetium Tc 99m Pyrophosphate, to our expanding line.

medi+physics®

ROCHE

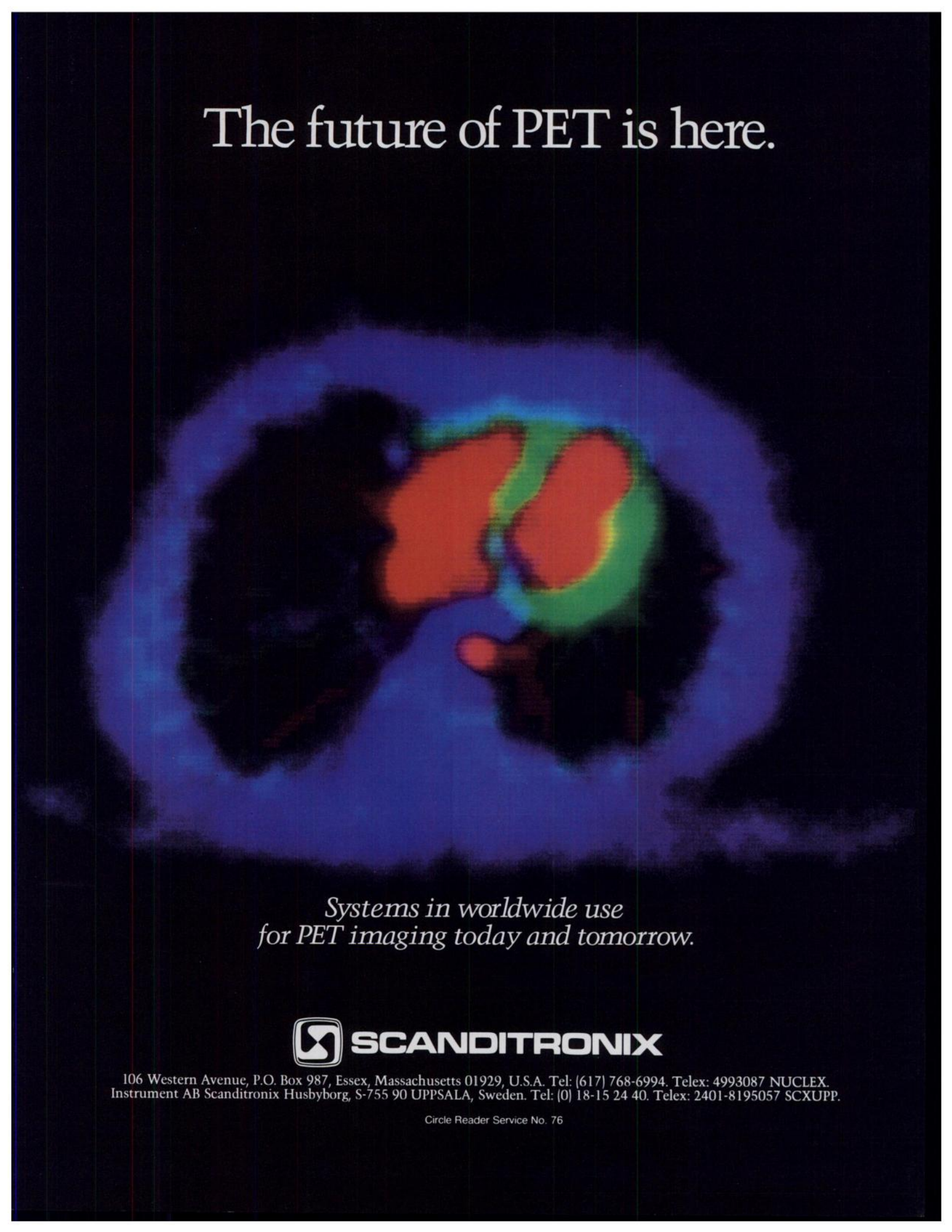
a subsidiary of Hoffmann-La Roche Inc.

Your Partner in Advancing Nuclear Medicine
For More Information Call 1-800-MEDI-123

Medi-Physics, Inc.
140 East Ridgewood Ave.
Paramus, NJ 07653-0289

Circle Reader Service No. 30

The future of PET is here.



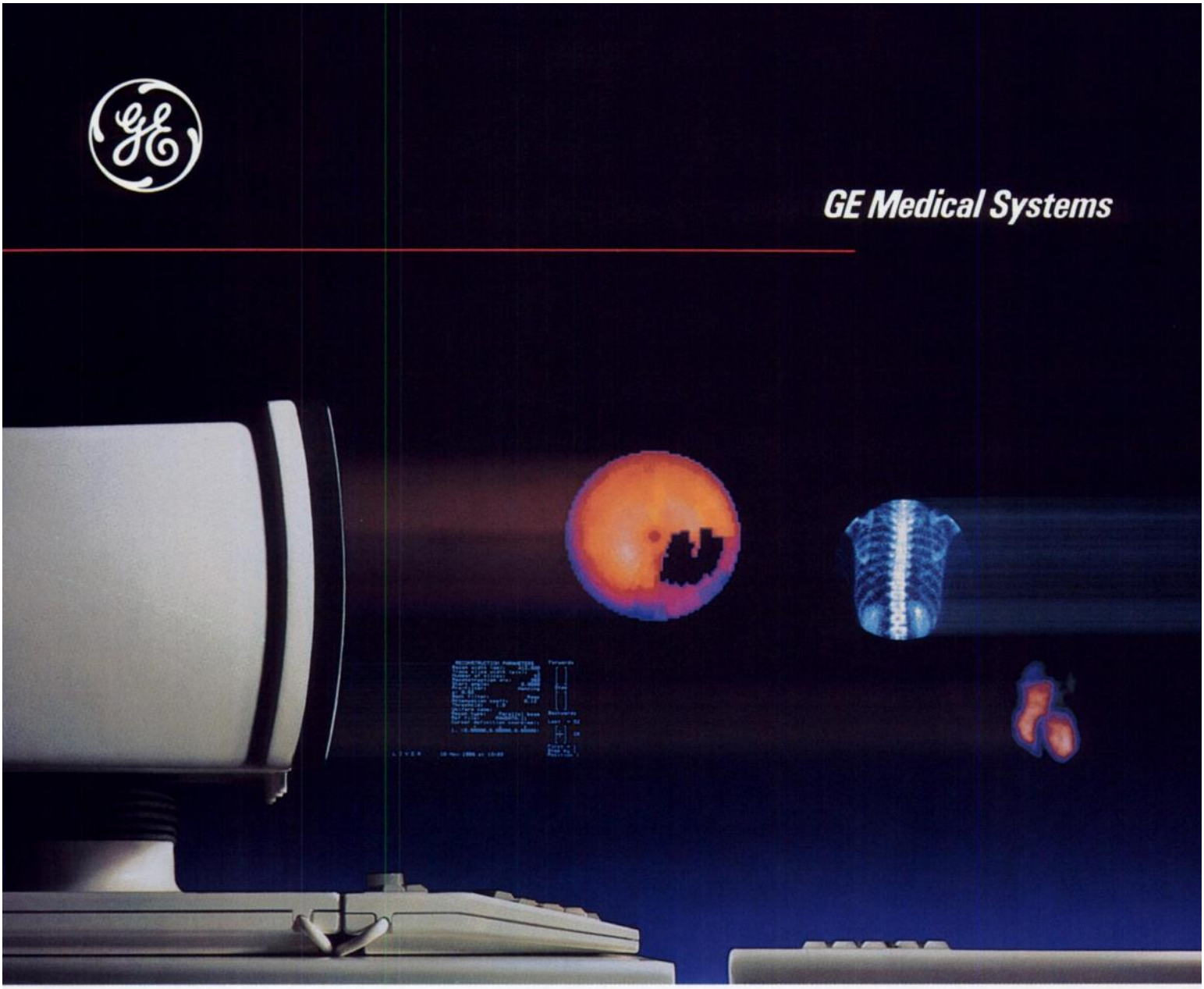
Systems in worldwide use
for PET imaging today and tomorrow.

SCANDITRONIX

106 Western Avenue, P.O. Box 987, Essex, Massachusetts 01929, U.S.A. Tel: (617) 768-6994. Telex: 4993087 NUCLEX.
Instrument AB Scanditronix Husbyborg, S-755 90 UPPSALA, Sweden. Tel: (0) 18-15 24 40. Telex: 2401-8195057 SCXUPP.

Circle Reader Service No. 76

GE Medical Systems

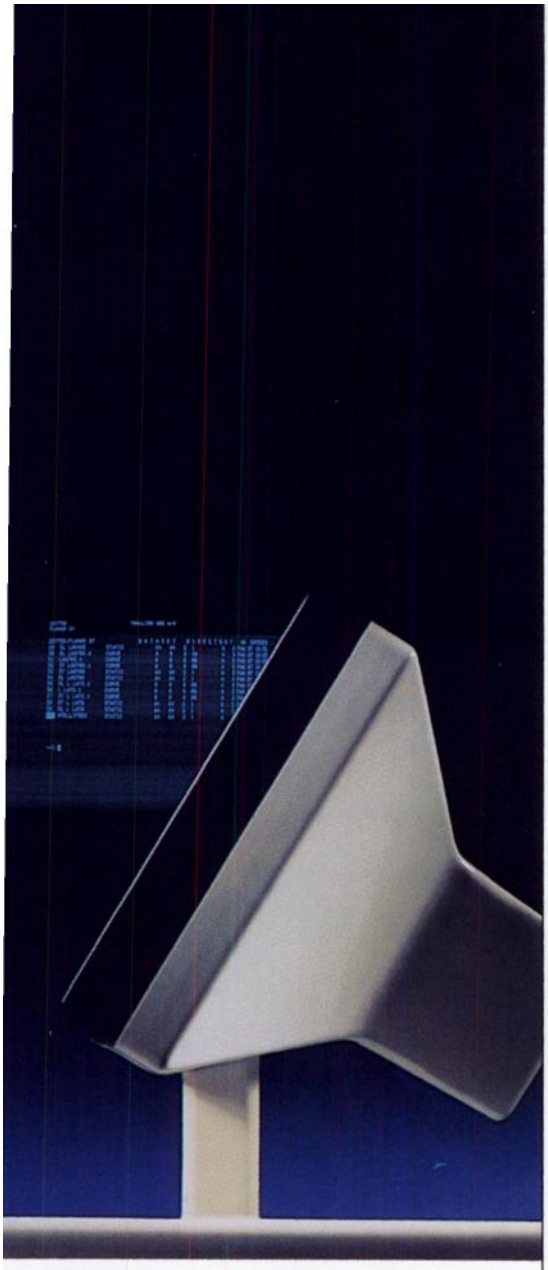


Starlink

Introducing the intelligent network from GE.
A Local Area Network
to integrate your nuclear imaging department.

Busy nuclear medicine departments need quick access to images and information, often in several places at once. Starlink™—a sophisticated local area network from GE—delivers speed, power and economy.

With Starlink, for example, a physician can access an image stored in a Starcam integrated system, send it to a Star II computer for processing, and retrieve it for viewing on a Starview viewing station. The whole process takes only a few seconds, and won't disrupt activities at the access point. And because data is available in electronic form, you eliminate the expense of redundant hardware such as array processors and hard copy formatters.



Invisible access

Starlink gives you access to all the systems in your network—invisibly—without interrupting work on those systems. Images stored in archives, computers or digital camera systems can be accessed without so much as a flicker. Operators won't even know you have made contact—their efficiency is maintained, yours is enhanced.

Processing power allows fast transmission of medical images. Starlink was created to efficiently handle the large amounts of information contained in images, unlike many network systems designed for simple data transfer.

This quiet activity is possible because of Starlink's "intelligence." The system hardware doesn't need to lend its processing "brains" to access information—powerful Starlink hardware and software do all the work.

Your link to the future

Starlink's Ethernet™ bus topology allows multiple systems to be connected on a single coaxial cable. This permits fast, simultaneous image transfer, high reliability and easy expansion. Starlink—the right choice for today and tomorrow.

Ethernet is a trademark of Xerox Corp.

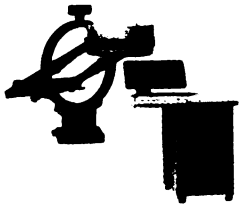
Meet our growing family

The Star family of nuclear imaging products offers versatility and easy upgrades as your needs change. With Starlink, the Star family works together better than ever to increase your nuclear imaging and processing capabilities. And Starlink can help you access other manufacturers' systems as well.

STARCAM™

Integrated camera and computer system.

STARPORT™



Digital camera system.

Circle Reader Service No. 40

STARPORT DS™

Data acquisition and storage system—can be linked with Starport or other manufacturers' cameras.

STAR II™

Data processing system—can be linked with Starport or other manufacturers' cameras.

STARVIEW™

Data processing and display system.

GEMINI™

Rectangular field of view camera system.

Find out more about Starlink. Call your GE Representative today, toll free:

1-800-624-5692.

There's never been a better time to choose GE... See why at RSNA.

THE ADJUSTABLE CARDIAC STRESS TABLE FOR EXERCISE IMAGING

The Cardiac Stress Table is designed for fast set up and easy operation. It allows the widest possible accommodation to desired exercise position, patient physique, preferred exercise/imaging procedure, and camera geometry.

The ergometer "floats" in the X-Y plane so it can be adjusted to any patient leg length. The back rest adjusts to permit stress testing from supine to the sitting position, or at any degree in between.

The combination of angulated back and moveable ergometer creates the most comfortable patient position, affording unobstructed, clear approach for portable or wide-field cameras. Available with your choice of ergometers–Tunturi or Collins.

The Cardiac Stress Table sets the standard for exercise imaging. From your Nuclear Medicine Source... Atomic Products Corporation.

*Shown with Collins Ergometer.

Atomic Products Corporation

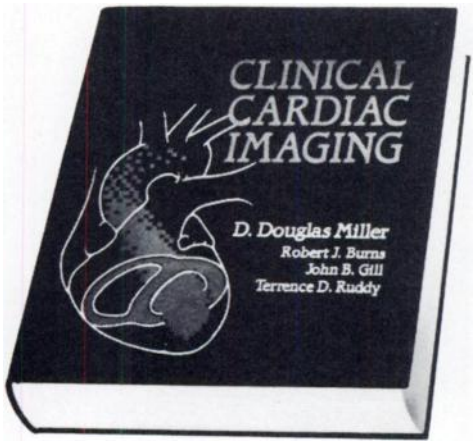
ATOMLAB DIVISION • ESTABLISHED 1949

P.O. BOX R, SHIRLEY, NEW YORK 11967-0917 U.S.A.
TEL: (516) 924-9000 • FAX: (516) 924-9241
TELEX NO. 797566 • TWX: 51022-80449 ATOMLAB CTCH

NEW TITLES IN CLINICAL NUCLEAR MEDICINE...

CLINICAL CARDIAC IMAGING

Editor:
D. Douglas Miller, M.D., C.M.
Associate Editors:
Robert J. Burns, M.D.
John B. Gill, M.D.
Terrence D. Ruddy, M.D.



The complete and definitive survey of all cardiac diagnostic imaging modalities and their clinical applications.

Providing a comparative and correlative review of cardiac imaging techniques and their clinical applications, CLINICAL CARDIAC IMAGING offers valuable practical guidance in planning the most appropriate and cost-effective diagnostic strategies for a wide range of acquired and congenital cardiovascular disorders. Part I of CLINICAL CARDIAC IMAGING offers an up-to-date survey of available diagnostic imaging modalities. Part II is a systematic examination of the clinical applications of cardiovascular imaging armamentarium of the 1980's, detailing effective diagnostic strategies for coronary artery disease, valvular and myocardial disease, and congenital heart disease.

Extensively referenced and richly illustrated, this comprehensive text features illuminating case examples; high-quality NMR, CT and PET scans, and other diagnostic images; supplementary line drawings; and valuable summary tables, diagrams, and flow charts. CLINICAL CARDIAC IMAGING is an invaluable clinical decision-making aid for cardiologists, radiologists, and nuclear medicine specialists as well as for internists and family practice physicians.
1988 (November 1987) (42143-9) $79.00

An innovative review of computer applications in clinical nuclear medicine!

EFFECTIVE USE OF COMPUTERS IN NUCLEAR MEDICINE: Practical Clinical Applications In The Imaging Laboratory

Editors: Michael J. Gelfand, M.D. and Stephen R. Thomas, Ph.D.

For all practicing radiologists and nuclear medicine physicians who want to learn more about the fundamental quantitative concepts underlying their work, EFFECTIVE USE OF COMPUTERS IN NUCLEAR MEDICINE provides concise, straightforward explanations of the computer processing methods and their clinical applications involved in scintigraphic imaging. Drawing on the considerable experience and expertise of 38 leading investigators, this methodically organized volume clearly establishes the scientific basis of computer analytic methods in nuclear medicine.

Throughout, the book maintains an effective balance between succinct discussions of computer-assisted image processing techniques and reviews of each clinical application, stressing potential utility and clinical efficacy. Introductory chapters review the fundamentals of computer data acquisition and processing. These chapters encompass two-dimensional imaging studies; single photon emission computed tomography (SPECT); thallium-201 two-dimensional imaging; first-pass and gated cardiac studies; brain, bone, and liver SPECT; thallium-201 SPECT; gastrointestinal and urinary tract quantitative studies.

A series of thoroughly illustrated chapters devoted to the scintigraphic analysis of different organ systems follows. Each chapter considers the clinical setting for a particular diagnostic study, defining the clinical and diagnostic goals of quantitative nuclear medicine and specifying the pharmacologic or physiologic process that is being measured or observed. Also described are useful data acquisition protocols and computer processing algorithms, as are the results obtained by investigators using each of these acquisition and processing methods.

Reflecting the growing importance of data processing in clinical nuclear medicine, EFFECTIVE USE OF COMPUTERS IN NUCLEAR MEDICINE provides radiologists and nuclear medicine physicians with a comprehensive overview of the computation processes involved in quantitative nuclear imaging studies. This innovative work gives special relevance to the clinical results obtained with these techniques, enabling physicians to more fully comprehend the rationale of computational techniques in different clinical contexts. Over 400 state-of-the-art illustrations including 31 plates in full color.
1988 (November 1987) (23093-5) $65.00

CARDIAC NUCLEAR MEDICINE

Editor: Myron C. Gerson, M.D.

CARDIAC NUCLEAR MEDICINE reflects the considerable experience and expertise of the 38 leading specialists who provide state-of-the-art reviews of available methods for the radioisotopic examination of the heart, along with practical guidance in planning the most appropriate diagnostic strategies. Throughout, they emphasize the importance of utilizing a systematic approach to test selection and test-result analysis, with due consideration given to nonnuclear noninvasive cardiac diagnostic procedures, when applicable. For each of the procedures reviewed, the authors describe • the radiopharmaceuticals required • the physiologic mechanisms involved • test acquisition and processing methods • common technical problems • and normal and abnormal findings.
1987 (23184-2) $65.00

CALL TOLL-FREE 1-800-345-8600 ask for Ext. 19

30 DAY FREE TRIAL

CLIP AND MAIL TO:
McGRAW-HILL BOOK CO.
P.O. BOX 400
HIGHTSTOWN, NJ 08520

☐ Please send me the books I have checked to use FREE for 30 days. When I decide to keep them I'll send payment for the amounts indicated plus a small charge for shipping, handling, and my state and local taxes. Otherwise, I'll simply return the books plus my unpaid invoice within 30 days of delivery and pay nothing, owe nothing for those I return.
☐ Bill Me ☐ Bill my organization
☐ I'd like to prepay my order, in which case McGraw-Hill will pay shipping and handling charges. I understand that I may return any of these books within 30 days and receive a fully guaranteed refund.
☐ I'd like to enter this order in the PAYMENT PLAN which spreads the cost of my purchase over four monthly payments ($100.00 minimum purchase).
Charge my ☐ Visa ☐ MASTERCARD*

Credit Card #_____

Exp. Date_____ *MC Bank #_____

Signature_____ Date_____

☐ Miller et al: CLINICAL CARDIAC IMAGING (42143-9) $79.00
☐ Gelfand/Thomas: EFFECTIVE USE OF COMPUTERS IN NUCLEAR MEDICINE (23093-5) $65.00
☐ Gerson: CARDIAC NUCLEAR MEDICINE (23184-2) $65.00

Name_____

Organization_____

Address_____

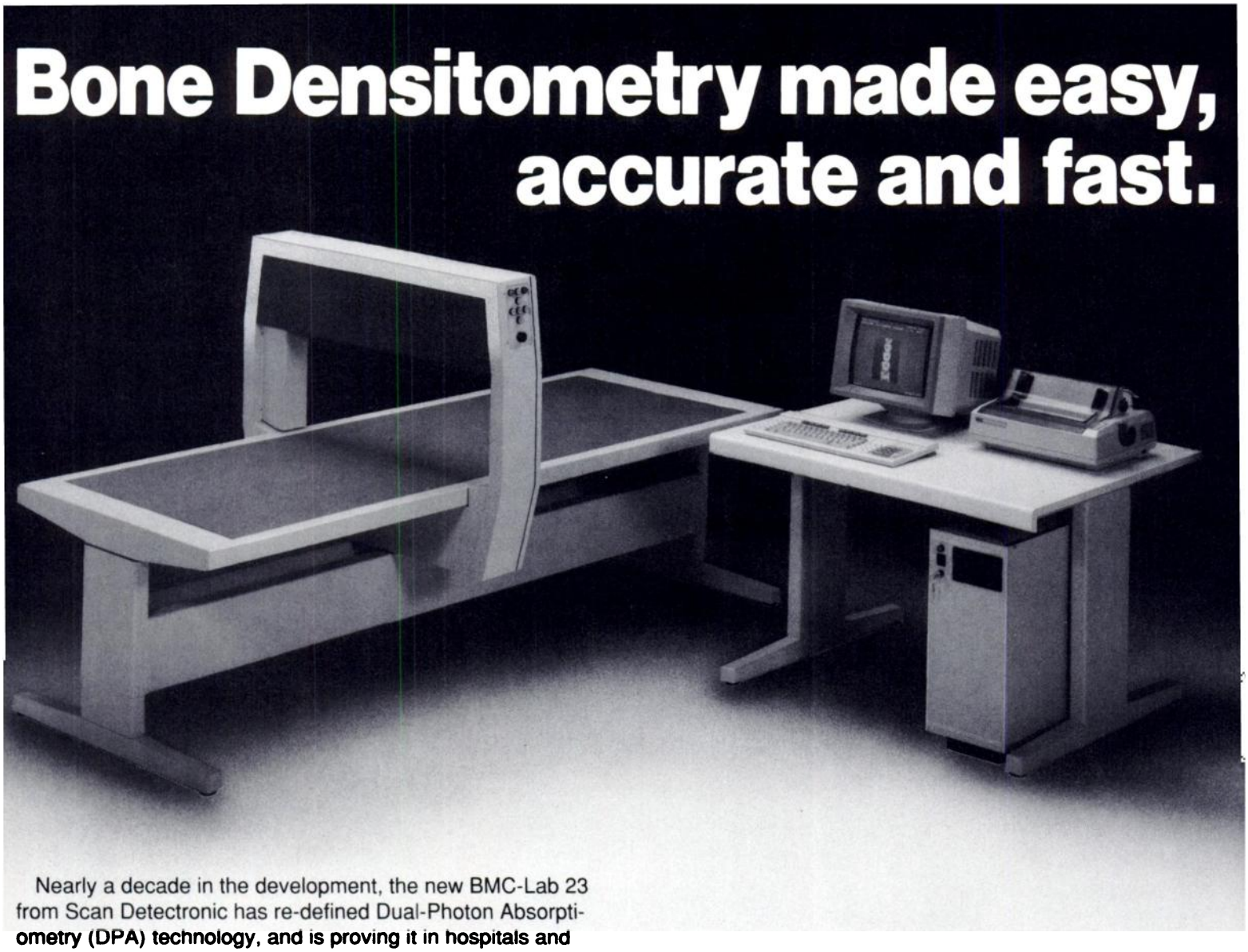
City_____ State_____ Zip_____

Telephone # ( )_____

72-X087-0192-1

Offer only good in U.S. All orders subject to acceptance by McGraw-Hill. All prices subject to change without notice. 30-day free trial does not apply to PreTest titles. McGraw-Hill will not ship to P.O. Boxes.

Bone Densitometry made easy, accurate and fast.



Nearly a decade in the development, the new BMC-Lab 23 from Scan Detectronic has re-defined Dual-Photon Absorptiometry (DPA) technology, and is proving it in hospitals and clinics throughout the world. It's 100% faster, precision and accuracy are vastly improved, and the new unit uses less than 0.3 curie of Gd-153.

THE BMC-LAB 23 FEATURES:

Precision and Accuracy Better Than 1.0%
A unique, built-in bone mineral calibration standard plus fully automated calibration and test programs ensure the most precise, reliable DPA results available.

Unparalleled Speed/Faster Patient Throughput
Using multi-detectors, a typical lumbar study can be completed in as little as five minutes.

Lower Operating Cost
The BMC-Lab 23 uses 2/3 less Gd-153, reducing source expense, operating costs and radiation exposure.

Easy-to-Use
Advanced, fully automated software provides operational ease, optimized scanning capabilities yielding the best clinical results available.

Professional Training, Service & Support
- "On-Call" Worldwide Service Network
- Onsite Training
- Free Software Updates
- Referral Generation Programs
- Educational Materials

For more than two decades, Scan Detectronic has earned a world-wide reputation as a leader in the design and development of radionuclide-based medical diagnostic systems.

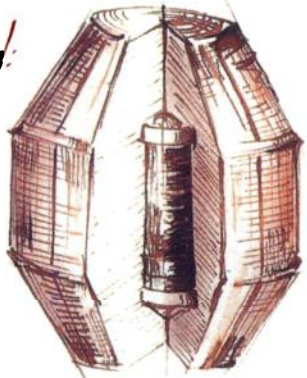
Let us show you how you can save time, increase accuracy and improve your throughput with the new BMC-Lab 23.

SCAN DETECTRONIC:
A Leader in Nuclear Medical Instrumentation

SCAN DETECTRONIC LABORATORIES INC.
A SUBSIDIARY OF SCAN DETECTRONIC DIAGNOSTIC A/S DENMARK
512 Danbury Road, New Milford, Connecticut 06776
Telephone: 203-354-6808 Telefax: 203-354-1437

SCAN DETECTRONIC A/S
Smedevanget 8-12, 9560 Hadsund, Denmark
Telephone: 45-8-572433 Telefax: 45 8 57 15 49

THE ELUVOLUTION

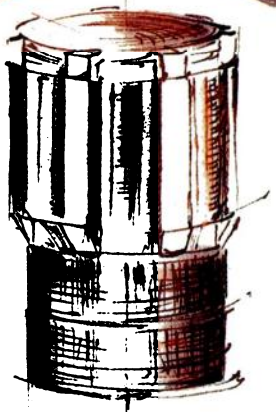


Minimal lead shield: 52mm thickness

Dose rate: 3.2 mRad/h x GBq

Lateral lead glass window

Lead shutter



All round visibility

Elution + Storage

ELUMATIC III The new generation of technetium 99m generators

To say, today, that nuclear medicine owes its rise to technetium is undeniable.
To claim that for more than 20 years, we have contributed to its development is no exaggeration.
To pledge that tomorrow the new generation of the ELUMATIC III will accompany its evolution, is reassuring.

INTERNATIONAL CIS
Subsidiary of Compagnie ORIS Industrie S.A.

International Division B.P. 60 - 91190 Gif-sur-Yvette - FRANCE - Tel. (33-1) 69.08.77.89 - 69.08.77.96 - Telex 603 912

CIS DIAGNOSTICI SPA
Via Dolomiti
Santhia (Vercelli) ITALIA
Tel. (161) 92.22.15
Telex 223085

Circle Reader Service No. 42

CIS (UK) Limited
Unit 5 - Lincoln Park
Business Centre
Lincoln Road - High
Wycombe
Bucks. HP 12 3RD
GREAT BRITAIN
Tel. (494) 359 22
Telex 837016

ISOTOPEN DIAGNOSTIK CIS GmbH
Einsteinstrasse 9-11
6072 Dreieich Bei
Frankfurt/Main -
DEUTSCHLAND
Tel. (06103) 34017
Telex 4185312

CIS RADIOQUIMICA S.A.
Prim 5 - Madrid 4 -
ESPAÑA
Tel. (1) 521.64.30
Telex 23971

CIS US inc.
1983 Marcus Avenue
Lake Success. NY 11042
- USA
Tel. (516) 326-8008
Telex 971322

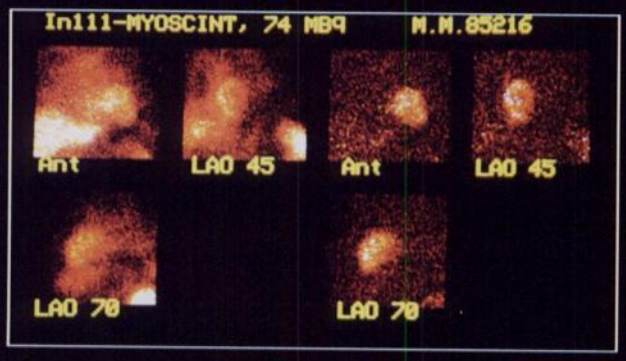
Myoscint Cardiac Imaging

Update on investigational studies

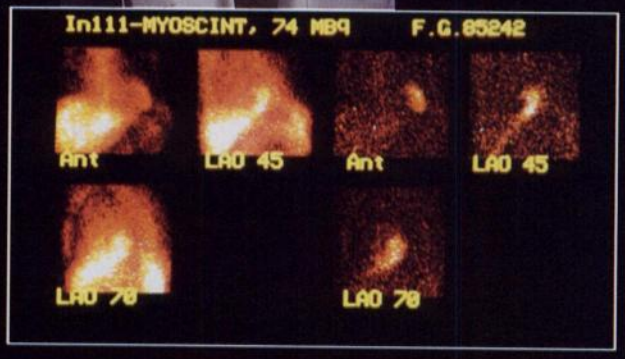
Myoscint™ is the first monoclonal antibody-based cardiac imaging agent. It binds to intracellular myosin, a globulin exposed only upon cell death.

Clinical trials are currently ongoing in the U.S. and Europe.

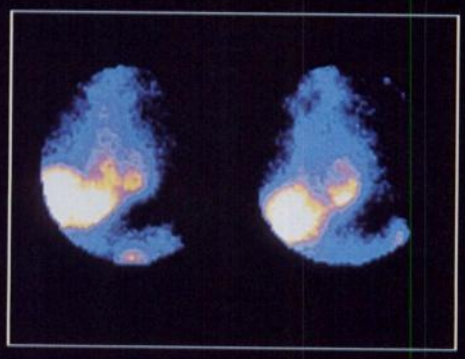
For more information on Myoscint or other innovative products from Centocor, please contact us.



58 year old male admitted with chest pain. Systemic streptokinase was started immediately. Images were obtained 24 hours after injection of Myoscint and 27 hours after beginning therapy. Images courtesy of Dept. of Nuclear Medicine, Spedali Civili, Brescia, Italy.



Patient admitted 24 hours after onset of chest pain. ECG suggested a "non Q wave" infarct. Images were obtained 24 hours after injection of Myoscint. Images courtesy of Dept. of Nuclear Medicine, Spedali Civili, Brescia, Italy.



56 year old male with chest pain. ECG revealed ST-T depressions in inferior leads. Planar imaging was performed 20 hours after injection of Myoscint. Images courtesy of Emory University School of Medicine, Atlanta, Georgia.

44 year old female with severe chest pain. ECG showed possible anterior MI. CPK 296 I.U. Ejection fraction 34%. Imaging performed 43 hours after IV administration of Myoscint. Endomyocardial biopsy positive for myocarditis. Image courtesy of Massachusetts General Hospital, Boston, Massachusetts.

Caution: New Drug—Limited by Federal Law to Investigational Use

Myoscint is a product of Centocor Cardiovascular Imaging Partners, L.P.

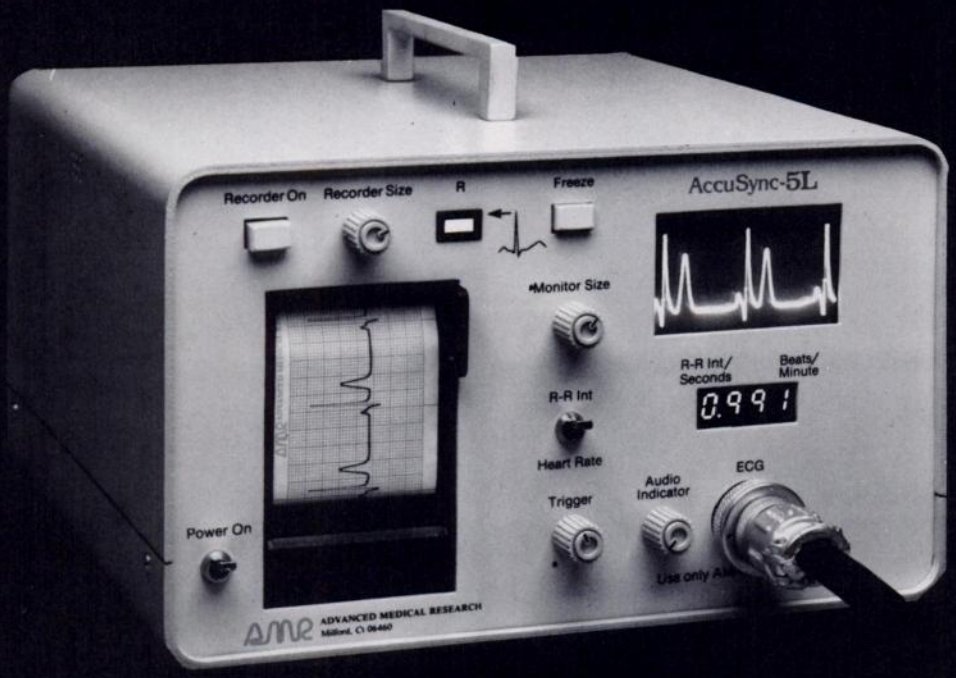
Circle Reader Service No. 23

CENTOCOR

244 Great Valley Parkway • Malvern, PA 19355 • (800) 345-2401 • Facsimile (215) 644-7558 • Telex 173-190

AMR's AccuSync provides R-wave detection with precision and reliability.

The finest R-wave Triggering device available for computerized gated cardiac studies.



AccuSync-5L Features

- Isolation Amplifier for Patient Safety.
- Digital CRT Monitor.
- ECG Strip Chart Recorder.
- Heart Rate/R-R int.
- Trigger Pulse LED.
- Trigger Control for Ease of Lead Placement and Precise Location of Trigger Pulse.
- R-Trigger Output, Compatible with all Computers.
- No Delay.
- ECG Output
- Playback Mode. (optional)
- Event Marker. (optional)
- Audio Indicator.

MODEL		FEATURES
AccuSync-6L		All **AccuSync-5L** features with the exception of the Strip Chart Recorder.
AccuSync-IL		All **AccuSync-5L** features with the exception of Digital CRT Monitor.
AccuSync-3R		All **AccuSync-IL** features with the exception of the Strip Chart Recorder and Playback Mode.
AccuSync-4R		All **Accu Sync-3R** features with the exception of the Heart Rate/R-R int. display.

ADVANCED MEDICAL RESEARCH CORP.

148 Research Drive/P.O. Box 3094
Milford, CT 06460/Telephone: (203) 877-1610

Circle Reader Service No. 14

The Society of Nuclear Medicine

35th ANNUAL MEETING

Tuesday, June 14–
Friday, June 17, 1988

San Francisco, CA
Moscone Convention Center

Call for Abstracts for Scientific Program and Works-in-Progress

The 1988 Scientific Program Committee solicits the submission of abstracts from members and nonmembers of The Society of Nuclear Medicine for the 35th Annual Meeting in San Francisco. Abstracts accepted for the program will be published in a special supplement to the May issue of the *The Journal of Nuclear Medicine.* Works-in-Progress will be published in a separate on-site show publication that will be distributed to all those who attend the meeting. Original contributions on a variety of topics related to nuclear medicine will be considered, including:

- INSTRUMENTATION
- COMPUTERS AND DATA ANALYSIS
- IN VITRO RADIOASSAY
- RADIOPHARMACEUTICAL CHEMISTRY
- DOSIMETRY/RADIOBIOLOGY
- NUCLEAR MAGNETIC RESONANCE
- CLINICAL SCIENCE APPLICATIONS
  - Bone/Joint
  - Cardiovascular
  - Endocrine
  - Gastroenterology
  - Infectious Disease and Immunology
  - Neurology
  - Oncology/Hematology
  - Pediatrics
  - Pulmonary
  - Renal/Hypertension

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

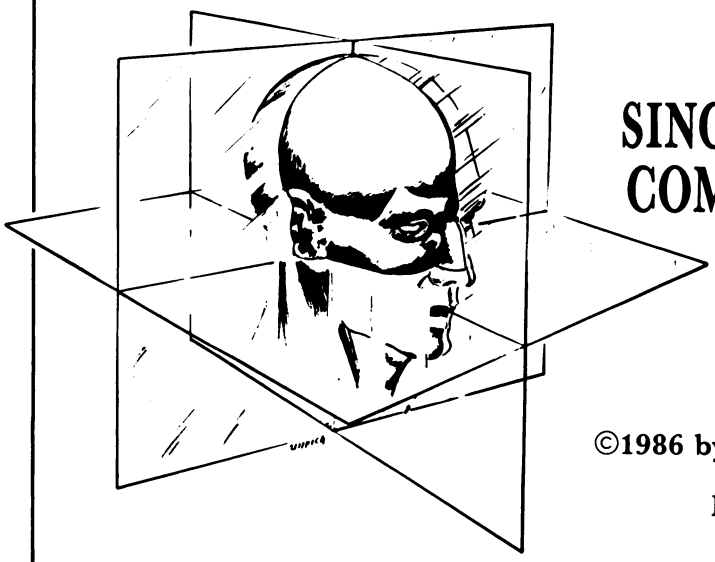
A complete educational program for technologist will be offered and technologists are encouraged to submit abstracts of their work for consideration.

The official abstract form for abstracts and Works-in-Progress may be obtained from the October 1987 issue of the *JNM* or by calling or writing:

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

Deadline for receipt of abstracts for the Scientific Program is Tuesday, January 12, 1988
Deadline for Works-in-Progress is Thursday, April 7, 1988

Circle Reader Service No. 187



SPECT

SINGLE-PHOTON EMISSION COMPUTED TOMOGRAPHY: A PRIMER

Robert J. English, CNMT
and Susan E. Brown, CNMT

168 pp; 6×9 softcover
Members: $15.00/Non-members: $17.00

Published in June 1986, SPECT: A PRIMER, is already revised and in it's second printing due to it's wide reception from the nuclear medicine community. With this new book, nuclear medicine technologists can now expand their knowledge of the specialty to encompass the increasingly important modality of SPECT. The Primer answers the technologist's fundamental questions about SPECT, as both a text and as an extension of any manufacturer's operating manual.

Designed as a study guide for SPECT technology and SPECT applications, this book also includes study questions, a glossary, and recommended reading lists at the end of each chapter.

Learn all about:

- **Image Reconstruction**
- **Quality Control Requirements**
- **Acquisition Parameters**
- **Processing Techniques**
- **Clinical Applications**

SPECIAL OFFER

Special bulk order rates have been established to make this sought after information available to everyone as SPECT continues to emerge in the field. By ordering in bulk, these copies can be distributed to an entire sales force, nuclear medicine departments, residents, and students.

Quantities of 10 or more: $13; 50 or more: $12; 100 or more: $10.

Ordering Information

Quantities under 10, add $2.50 postage and handling for each book ordered. Bulk orders, please call for postage and handling charges. Prepayment required in U.S. funds drawn on U.S. banks only. For payments made in U.S. dollars, but drawn on a foreign bank, add a bank processing fee of $4.50 for Canadian bank drafts of $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. *Prices are in U.S. dollars and are subject to change without notice.*

The Society of Nuclear Medicine, Dept. 1187J
136 Madison Avenue, New York, NY 10016-6760 (212)889-0717

Classified Advertising

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

Rates for Classified Listings—$12.50 per line or fraction of line (approx. 50 characters per line, including spaces). Please allow 28 characters for the first line which will appear in capital letters. Special rates for *SNM members* on Positions Wanted: $10.00 per line. *Note: Box numbers are available for the cost of the 2 lines required.*

Rates for Display Ads—Agency commissions are offered on display ads only.

Full page	$975	Quarter page	$375
Half page	575	Eighth page	320

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

Deadline—first of the month preceding the publication date (January 1 for February issue). Please submit classifed listings typed double spaced. No telephone orders are accepted.

Send copy to:
Classified Advertising Department
The Society of Nuclear Medicine
136 Madison Avenue
New York, NY 10016-6760
(212)889-0717

Positions Available

Fellowship

THE NUCLEAR MEDICINE FELLOWSHIPS AT THE UNIVERSITY OF MICHIGAN MEDICAL CENTER. AMA-approved 1- and 2-year fellowships in nuclear medicine are offered to qualified physicians. The program leads to eligibility for Board certification in nuclear medicine or nuclear radiology. A fellow is educated in basic principles, clinical practice, and research. The division is comprehensively equipped and has programs in all aspects of nuclear medicine, including positron emission tomography, single photon tomography, labeled antibodies, and radionuclide therapy. For further information and applications for July 1988, contact: David E. Kuhl, MD, Chief, Division of Nuclear Medicine, University of Michigan Hospital, 1500 E. Medical Center Dr., Ann Arbor, MI 48109-0028. A Nondiscriminatory, Affirmative Action Employer.

Physician

NUCLEAR MEDICINE PHYSICIAN. Available in 1988, full-time academic position, Department of Medicine, McMaster University and Service of Nuclear Medicine, Department of Medicine, Hamilton Civic Hospitals, a 1,030-bed affiliated hospital. Prerequisites include eligibility for certification in nuclear medicine of the Royal College of Physicians and Surgeons (Canada), Ontario licensure and Canadian citizenship. Experience in internal medicine or cardiology is an asset. Position includes teaching at both undergraduate and postgraduate levels. Research strongly encouraged especially in oncology and thromboembolism. Direct inquiries and resumés to: Dr. C.N. Best, Head, Service of Nuclear Medicine, Hamilton Civic Hospitals, 237 Barton St. East, Hamilton, Ontario, Canada, L8L 2X2. EOE.

Position available immediately. Board certified NUCLEAR PHYSICIAN desired, preferably with internal medicine background. Position includes strong university/academic teaching involvement in an integrated Nuclear Medicine Residency Program. Candidates need to be experienced in instrumentation application, particularly with computer applications, complete familiarization with nuclear cardiology and SPECT techniques. Seeking a candidate with basic interest in clinical work and applied clinical research in a community hospital setting. Apply with resumé to: Joseph A. Prezio, MD, Chairman and Program Director, SUNY/B Nuclear Medicine, VAMC, Building 5, 3495 Bailey Ave., Buffalo, NY 14215. An Equal Opportunity Employer.

NUCLEAR MEDICINE PHYSICIAN, Ontario, Canada. The Ottawa Civic Hospital requires a Nuclear Medicine Physician to join an academically active and growing division of nuclear medicine. The division also currently services the Children's Hospital of Eastern Ontario. Candidates must possess or be eligible for the FRCP(C) in nuclear medicine and eligible for licensing in the Province of Ontario. A teaching appointment at the University of Ottawa will accompany this position. In accordance with Canadian Immigration requirements, preference will be given to Canadian citizens and permanent residents of Canada. Interested candidates should submit their CV and the names of three references to: Dr. K.Y. Gulenchyn, Chief, Division of Nuclear Medicine, Ottawa Civic Hospital, Ottawa, Ontario K1Y 4E9, Canada. EOE.

Programmer/Analyst

PROGRAMMER/ANALYST for nuclear medicine. Mayo Clinic in Rochester, Minnesota, has an immediate opening for a programmer/analyst to work in the area of nuclear medicine. Candidates should have a minimum of a Bachelors degree in computer science (or other science degree) and a minimum of 2 years scientific programming experience in Fortran or Pascal. Considerable knowledge of computer concepts and capabilities is necessary, and strong personal communications skills are required. Responsibilities include analysis, coding, software maintenance, systems management and user training in the use of computers in the nuclear medicine department. Candidates should have a desire to work in a medical setting. Mayo Clinic, with 800 staff physicians and 6,700 allied health, professional and paramedical employees, offers a stimulating and exciting work environment. Mayo also provides an attractive compensation package, including an outstanding personal security and benefits program. Interview and relocation expenses are provided. Interested and qualified candidates should send a resumé, including education, credentials, and salary requirements to: Larry Gleason, Personnel Section, Mayo Clinic, 200 1st St. SW, Rochester, MN 55905. Mayo is an Equal Opportunity Employer.

Radiologist

Board certified or eligible DIAGNOSTIC RADIOLOGIST to be part of a three-person imaging center staff and outpatient specialty clinic in Tacoma, Washington. The radiology staff of this specialty center is associated with the larger radiology departments in hospitals operated by Group Health Cooperative of Puget Sound in Seattle and Redmond, Washington. The practice consists of responsibility in ultrasound, nuclear medicine, GI fluoroscopy, mammography, outpatient CT, and diagnostic x-ray. For further details please contact: Director of Medical Staff Personnel, Group Health Cooperative of Puget Sound, 521 Wall St., Seattle, WA 98121; (206)448-6550. EOE.

NUCLEAR RADIOLOGIST. Position available at the University of Rochester Medical Center, Strong Memorial Hospital, a 750-bed tertiary care facility. Position is in the Division of Nuclear Medicine, a division of the Department of Radiology. Individual must have successfully completed training for ABR certification with Special Competence in Nuclear Radiology or American Board of Nuclear Medicine. Research and teaching is a necessity in a strong academic division with full state-of-the-art nuclear equipment including SPECT and computerized work. Send letters of inquiry to: Robert E. O'Mara, MD, Acting Chairman, Diagnostic Radiology, Box 648, University of Rochester Medical Center, Rochester, NY 14642. EO/AA/M-F Employer.

Nuclear Medicine. Board certified RADIOLOGIST with fellowship training in nuclear medicine for position beginning July 1, 1988. Nuclear medicine is an advanced, active section with emphasis on cardiac nuclear medicine state-of-the-art equipment. 612-bed teaching hospital. Radiology group is an academically oriented private practice. Send inquiries to: Stanley Grossman, MD, Chief of Nuclear Medicine Section, Dept. of Radiology, The Western Pennsylvania Hospital, 4800 Friendship Ave., Pittsburgh, PA 15224. EOE.

Residency

RESIDENCY IN NUCLEAR MEDICINE. A two-year ACGME-approved program offering broad clinical and basic science experience. Minimum requirement is Board eligibility in internal medicine, radiology, or pathology. One year fellowships for radiologists also available. The program is an integrated program involving tertiary care, oncology, and pediatric exposure, strong radioimmunoassay, and research opportunities. Program also provides opportunity for exposure to MRI, CT, and ultrasound. An integrated program of the State University of New York at Buffalo School of Medicine. Positions available July 1, 1988. Contact: Joseph A. Prezio, MD, Chairman and Program Director, SUNY/B Nuclear Medicine, VAMC, Building 5, 3495 Bailey Ave., Buffalo, NY 14215. EOE.

NUCLEAR MEDICINE RESIDENCY-University of Arizona. Two-year, ACGME-approved program features individualized instruction in clinical and basic sciences at University Medical Center and VA Medical Center. Research on novel instrumentation is in progress under an NCI Program Project Grant, and clinical research opportunities are available. Tucson is a delightful high-desert city with year-round outdoor recreation. Prerequisite: at least 1 year of ACGME-approved postgraduate training. Contact: James H. Woolfenden, MD, Division of Nuclear Medicine, Arizona Health Sciences Center, Tucson, AZ 85724. Applications will begin to be reviewed on November 1, 1987. The University of Arizona is an Affirmative Action/Equal Opportunity Employer.

NUCLEAR MEDICINE RESIDENCY. July 1988. Comprehensive imaging/RIA/therapy program in three hospitals (private, county, VA) with 2,800 total beds. Mobile imaging for 216 ICU beds. Large pediatric population. Strong cardiovascular emphasis. Training includes SPECT, NMR, PET with optional rotations in CT/ultrasound. Contact: Warren Moore, MD, Dept. of Radiology, Baylor College of Medicine, Houston, TX 77030. EOE.

Senior Technologist

SENIOR NUCLEAR MEDICINE TECHNOLOGIST. The University of California Davis Medical Center is seeking a highly motivated registered staff technologist with extensive nuclear cardiology, computer, and SPECT experience. Extensive active experience with nuclear medicine work and college level education in a health science field is preferred. Our dynamic division provides a full range of imaging and in vivo procedures with state-of-the-art Siemens, Picker, and ADAC cameras and computers. UCDMC is Northern California's premier 400+ bed teaching and research hospital. The successful candidate will complete our staff of five technologists, five physicians, and four support personnel, and will be challenged while working in close contact with diverse medical, nursing, and ancillary staff. Sacramento is a rapidly growing city, located near mountains, the ocean, and other recreational areas. We offer a competitive salary, extensive benefits, and plenty of challenge! For consideration, refer to Job #76-87. Apply to: UC Davis Medical Center, Personnel, 2315 Stockton Blvd., Sacramento, CA 95817. EOE/AA Employer.

Technologist

NUCLEAR MEDICINE TECHNOLOGISTS—Phoenix, Arizona. Good Samaritan Medical Center, a 770-bed teaching institution needs Nuclear Medicine Technologists for the imaging and nuclear cardiology sections of the department. We are a progressive nuclear medicine department with MDS and VAX/Microdelta computers, two Siemens 7500 ZLC ECT cameras, two Picker Dyna-Mo cameras, a Technicare Omega 500, Siemens LFOV, and a Lunar Radiation DP4 Bone Density Unit. Qualified applicants must be hard working, able to work independently, have good communication skills, and be registered or registry eligible. We offer an excellent benefits package and a competitive salary commensurate with experience. Please send resumé to: Personnel Dept., Good Samaritan Medical Center, 215

E. McDowell Rd., Phoenix, AZ 85006 or contact Jenny McAuley (602)239-4747 for more information. EOE.

NUCLEAR MEDICINE TECHNOLOGIST. Florida license required. Certification through The American Registry of Radiologic Technologists or Nuclear Medicine Certification Board. One year experience or 1 year training in computer programming with FORTRAN IV. Duties include preparation and measurement of radioactive isotopes doses for diagnosis and therapy; measurement of glandular activity by uptake; imaging of all body organs and systems (cardiovascular, gastrointestinal, glandular, etc.). Perform radioimmunoassay, blood volume, red cell survival, etc. Candidate will program with FORTRAN IV to expand present nuclear medicine computer programs. Salary: $10.50 per hr, 8am to 5pm, 40 hr/week with $15.75 per hr overtime. Qualified applicants, send resumé to: Job Service of Florida, 105 E. Broward Blvd., Ft. Lauderdale, FL 33301; Attn: Job Order #FL 5748388. EOE.

NUCLEAR MEDICINE TECHNOLOGIST. Challenging position for career oriented technologist with BS and CNMT in San Francisco Bay Area nuclear medicine department. Prior supervisory experience preferred. Send resumé, salary requirement and availability information to: Box 1102, The Society of Nuclear Medicine, 136 Madison Ave., New York, NY 10016-6760.

NUCLEAR MEDICINE TECH. Full-time position available for tech with CNMT (or eligible) in 646-bed, full service community teaching hospital. We offer a competitive salary and a comprehensive benefit package. Call collect: John Tyler, (301)955-0208 or send resumé to: Employment Manager, The Francis Scott Key Medical Center, a Johns Hopkins Health System Member Institution, 4940 Eastern Ave., Baltimore, MD 21224. EOE M/F/H/V.

NUCLEAR MEDICINE TECHNOLOGIST. Immediate full-time position available for registered or registry eligible individual at the Veterans Administration Medical Center. Excellent salary and benefits are offered. Duties include imaging and RIA. For further information please contact: Jeri Foster, Personnel Department, VA Medical Center, 2200 Gage Blvd., Topeka, KS 66622; (913)272-3111, ext. 226. EOE.

NUCLEAR MEDICINE TECHNOLOGIST. Immediate opening available for registered or registry-eligible Nuclear Medicine Technologist in a 600-bed community hospital located in Central New York. Crouse Irving Memorial Hospital offers a competitive salary range, complete benefits package and tuition reimbursement. Please contact: Michael F. Barnes, Chief Technologist, Nuclear Medicine Department, Crouse Irving Memorial Hospital, 736 Irving Ave., Syracuse, NY 13210. EOE.

NUCLEAR MEDICINE TECHNOLOGIST. The University of Utah Medical Center is accepting applications for a registered or registry-eligible Imaging Technologist. Our division provides a full range of imaging, cardiac, and research procedures with multiple cameras and computers. Competitive salary and benefits. Salt Lake City is a pleasant city located near mountains, ski resorts, and other recreational areas. Contact: Paul E. Christian, Nuclear Medicine, University of Utah Medical Center, Salt Lake City, UT 84132; (801)581-2716. EOE.

Vacancy exists for a full-time registered or registry eligible NUCLEAR MEDICINE TECHNOLOGIST with SPECT experience at this active 205-bed medical center, located in Michigan's upper peninsula. Excellent civil service salary and benefits. Apply to: Personnel Service, VA Medical Center, Iron Mountain, MI 49801; (906)774-3300, ext. 201. An Equal Opportunity Employer.

Positions Wanted

NUCLEAR MEDICINE PHYSICIAN. Experienced, ABNM certified. Fully trained in diagnostic radiology. Cardiac imaging and ultrasound expertise. Seeks private practice position. Demonstrated ability in developing a successful clinical practice. Box 1101, The Society of Nuclear Medicine, 136 Madison Ave., New York, NY 10016-6760.

TEMP. NUCLEAR MEDICINE TECHNOLOGIST. Certified 5 years experience. Long or short term. Will travel! Reply: P.O. Box 82, McHenry, MD 21541.

Equipment Wanted

Used Capintec dose calibrators, used nuclear stethoscopes. To buy or trade for new equipment. Please send information and details to: P.O. Box 1058, New Hyde Park, NY 11040, or call, (516)742-1939.

Equipment For Sale

For Sale

ADAC CAM II PORTABLE COMPUTER. Best offer. Call: Kathie, Nuclear Medicine Consultants; (415)664-7400.

Nuclear Medicine Technologists

Experienced Technologists wanted for expanding major university teaching department. Newly dedicated department with state-of-the-art equipment, teaching and research opportunities situated within 1,500-bed complex offering unequaled opportunity.

Excellent salary and benefits program.

Call: Arnold Strashun, MD, Director of Nuclear Medicine

(718)735-1031

Or forward resume in confidence to: Dr. Srashun, Department of Nuclear Medicine "A" Building

KINGS COUNTY HOSPITAL CENTER

451 Clarkson Avenue
Brooklyn, NY 11203

Member NY Health & Hospitals Corporation
An equal opportunity employer M/F

NUCLEAR MEDICINE TECHNOLOGIST

Eastern Maine Medical Center, a sophisticated 416 bed facility serving half the state of Maine with virtually every medical specialty, is seeking a Nuclear Medicine Technologist. Our Nuclear Medicine Department has three gamma cameras including one with SPECT capabilities. A full range of diagnostic and therapeutic procedures are performed and cross training is provided in other imaging modalities. Our dynamic staff of 12 radiologists includes 2 board certified in nuclear medicine. Competitive salary and benefit package while living in the midst of four season recreation.

For more information, please contact Debbie Ouellette, Employment Representative, Eastern Maine Medical Center, 489 State Street, Bangor, ME 04401, (207) 945-7868.

An equal opportunity employer

EASTERN MAINE MEDICAL CENTER

NUCLEAR MEDICINE TECHNOLOGIST

Pitt County Memorial Hospital, a 550+ bed acute care teaching hospital, is currently accepting applications for a Nuclear Medicine Technologist. Qualified candidates must possess an Associate degree in Radiologic Technology and have ARRT or SNMT certification or be registry eligible and obtain either certification within one year. Pitt County Memorial Hospital offers competitive salaries and excellent benefits package. For immediate consideration, send resume to:

PCMH — People Care More Here

Employment Office
PITT COUNTY MEMORIAL HOSPITAL
P.O. Box 6028
Greenville, NC 27834
(919)551-4556

EOE/AA

STAFFING DILEMMAS?

LET RADS™ HELP

★ Specializing in Radiologic Imaging and Nuclear Medicine Personnel ★

- **TEMPORARY STAFFING SERVICE**
- **NATIONWIDE PERMANENT PLACEMENT SERVICE**

We Can Provide:

- ✔ highly qualified, experienced technologists on a PRN basis
- ✔ recruiting services for permanent positions at a fraction of your recruiting costs
- ✔ assistance in eliminating revenue loss due to staffing shortages

Call today: 1-800-282-4198-9642
(813) 461-9642

RADS™
Radiography Service, Inc.

St.Vincent's Medical Center

Nuclear Medicine Technologist

Immediate full-time position available for a self-motivated, registered Nuclear Medicine Technologist to work day shift with additional on-call hours at a 518-bed medical facility located in Northeast Florida. St. Vincent's offers competitive salary and a complete benefit package. Please write or call:

Carolyn Hammond, Personnel Department
St. Vincent's Medical Center
1800 Barrs Street
Jacksonville, Florida 32204
(904) 387-7307 EOE

Nuclear Medicine Technologist

Nuclear Medicine Technologist who is seeking supervisory responsibilities. Twenty-two Physician Group, Gulf Coast of S. Texas. Salary negotiable. Call or send CV:

Peter Havens or Amanda Fuhro,
Valley Diagnostic Clinic,
2200 Haine Drive,
Harlingen, TX 78550
(512)425-7200. EOE.

BGH

NUCLEAR MEDICINE PHYSICIAN

A 430-bed community hospital with a large regional laboratory has a position for a physician prepared in nuclear medicine. Other imaging modalities included in this regional referral center include radiology, CT scanning, and ultrasound. Applicants must have (or be eligible for) RCPS(C) certification in nuclear medicine. Certification in a second discipline would be an asset. Remuneration arrangements are negotiable. Applications or inquiries should be directed to:

Glenn E. Chapman, Executive Director
Brandon General Hospital
150 McTavish Ave. East
Brandon, Manitoba R7A 2B3. EOE.

NUCLEAR MEDICINE PHYSICIAN
Clinical Center
National Institutes of Health

The Nuclear Medicine Department of the National Institutes of Health is seeking a board-certified Nuclear Medicine Physician for its Clinical Studies Section. Candidates must be U.S. Nuclear Medicine Board Certified. Send C.V. with cover letter, copies of medical school diploma and residency certificates, and names of 3 references to: **RONALD NEUMANN, M.D., DEPUTY CHIEF, NMD BLDG. 10, RM 1C-495, NATIONAL INSTITUTES OF HEALTH, 9000 ROCKVILLE PIKE, BETHESDA, MD 20892. PHONE: (301) 496-5675**

U.S. Citizenship Required
An Equal Opportunity Employer

NUCLEAR MEDICINE TECHNOLOGIST

Immediate full-time opening for a Registered Nuclear Medicine Technologist or Board eligible on our day tour of duty. Applicant will work in a busy, progressive Imaging Department of a 400-bed hospital. All aspects of nuclear imaging and nuclear cardiology included. An excellent starting salary is augmented by an enriching fringe benefit package which includes: 15 days vacation, 11 paid holidays, life insurance, health insurance, company paid pension plan, sick days and 100% tuition refund program. Apply: **Personnel Department, Mercy Hospital, 746 Jefferson Avenue, Scranton, PA 18501.** ***Equal Opportunity Employer***

This publication is available in microfilm.

University Microfilms International reproduces this publication in microform: microfiche and 16mm or 35mm film. For information about this publication or any of the more than 13,000 titles we offer, complete and mail the coupon to: University Microfilms International, 300 N. Zeeb Road, Ann Arbor, MI 48016. Call us toll-free for an immediate response: 800-521-3044. Or call collect in Michigan, Alaska and Hawaii: 318-761-4700

☐ Please send information about these titles:

_____

_____

Name _____

Company/Institution _____

_____

Address _____

City _____

State _____ Zip_____

Phone ( ) _____

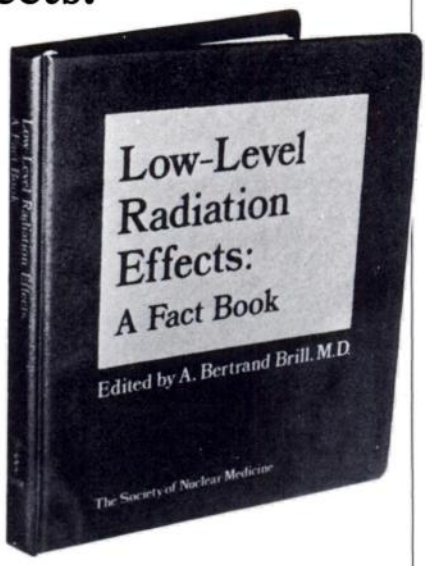
University Microfilms International

SNM Offers Important Up-to-Date Information on Low-Level Radiation

Second Edition

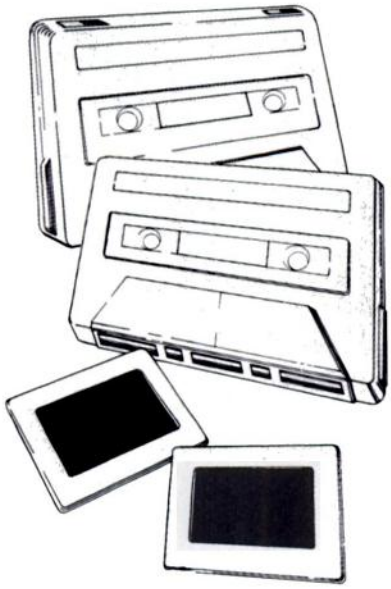
Low-Level Radiation Effects: A Fact Book

Edited by A. Bertrand Brill, M.D., Ph.D.



This book represents a conscientious attempt to provide an unbiased, up-to-date source of knowledge regarding the potential long- and short-term effects of radiation exposure to humans. Important new sources of information provided the stimulus for publishing the 1985 updtes, which can be included with the original document. New reports issued by UNSCEAR, ICRP, and NCRP and references to recent publications of findings among Japanese A-bomb survivors have been added. Prepared in 8½ × 11 " looseleaf format to facilitate periodic additions, this fact book contains a concise reference list for readers wishing to obtain additional, or more detailed information.

Cost: **$32.00** for original document (156 pages, including binder) plus 1985 update package (80 pages).
$10.00 for updates purchased separately (80 pages without binder).
Postage is included in prices.



Biological Effects of Low-Level Radiation *(an audiovisual)*

Richard L. Witcofski, Ph.D.

Illustrates up-to-date information about the effects on humans of low-level radiation and the difficulties of detection. The various sources of radiation exposure to the population are provided. Three potential biological effects of low-level exposure (cancer induction, genetic effects, and effects on the embryo) are each discussed in detail, particularly in light of the studies on exposed humans. And, finally, the risks of exposure to low levels of radiation are compared to other risks of life. *Approved for Category 1 credit and .1 CEU (VOICE) credit.* 80 slides; 59-min audio.

Cost: **$55.00** for members, **$75.00** for non-members, plus
$5.00 per order for postage and handling in US.
$10.00 per order for postage and handling outside US.

ORDER NOW!

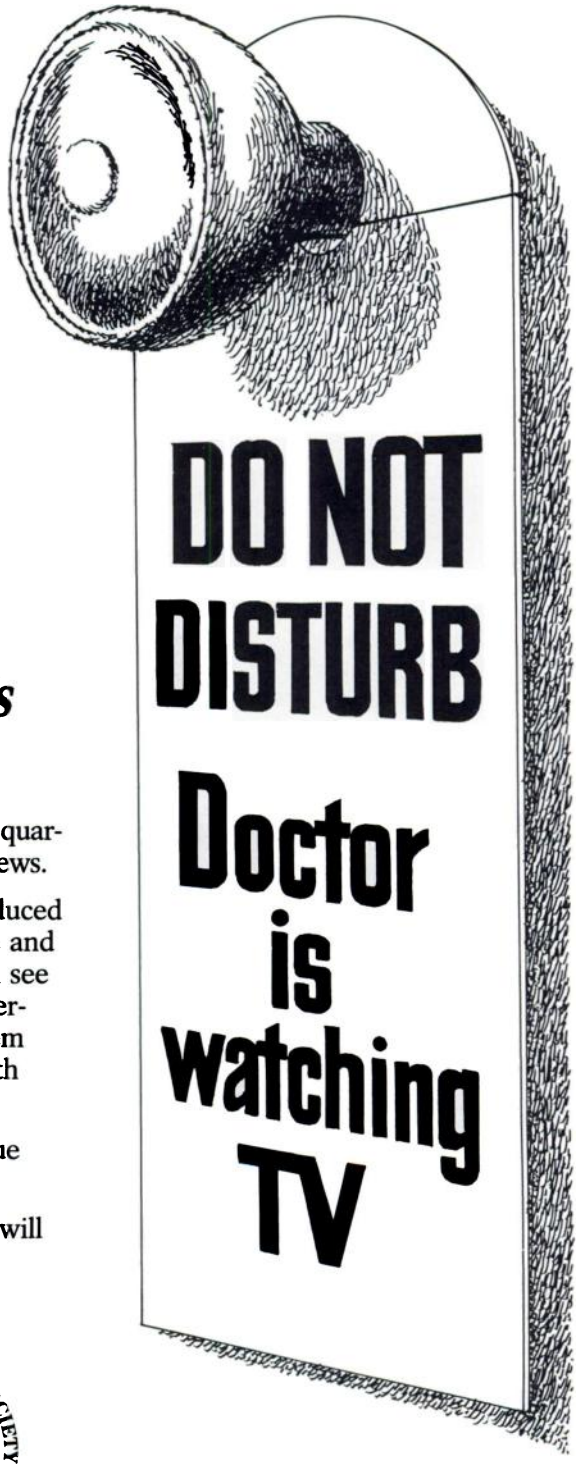
Pre-payment required in US funds drawn on US banks only. No foreign funds accepted. For payments made in US dollars, but drawn on a foreign bank, add $4.50 bank processing fee for Canadian bank drafts or $40.00 for all other foreign. Make checks payable to: **Book Order Department 1187J, The Society of Nuclear Medicine, 136 Madison Avenue, New York, NY 10016-6760.** Prices are subject to change without notice.

See SNM's other publications at RSNA Booth No. 3501

Circle Reader Service No. 189

There are some things you can't do with just an hour of your time...

you can't catch up on all your reading,
you can't play 18 holes of golf,
you can't write all the letters you owe,
you can't prepare a complete gourmet dinner,
you can't watch a basketball game,
you can't tune a sports car.



BUT you can keep up with what's happening in radiology

In an hour or less, you can view *RSNA Today* . . . the quarterly video digest of imaging science, technology and news.

Four times a year, in fast-moving, professionally produced video, *RSNA Today* will bring "cutting edge" science and advanced technology into your home or office. You'll see the newest procedures in live action and full color, performed by the people who developed them. Play them back for review as often as you wish. Share them with your staff and colleagues.

CME credit? You bet! RSNA designates that each issue meets the criteria for one hour of Category I credit.

Subscribe now by phone! RSNA and ACR members will be billed $225 . . . nonmembers, $275 . . . for four cassettes of *RSNA Today*, issued quarterly.
Call 215-250-7287.

RSNA Today
The Video Digest of Imaging Science, Technology and News

THE RADIOLOGICAL SOCIETY OF NORTH AMERICA

Circle Reader Service No. 88

SNM AUDIOVISUALS ORDER FORM

The prices shown under each program below are for members only; please add $20.00 per program if not a member. Thus, a $65 program is non-member priced at $85.

All foreign orders must be prepaid in U.S. funds on U.S. banks only.

☐ **MEMBER**

☐ **NON - MEMBER** (add $20.00 per program)

NEW PROGRAMS

The following programs were originally presented at the 1986 Annual Meeting

AMOUNT

☐ **CEL 72 MARKETING NUCLEAR MEDICINE TO THE REFERRING PHYSICIAN ('86)**
Ralph G. Robinson, M.D.
check format ☐ 45 slides/tape **$65** ☐ VHS **$85** ☐ Beta **$85** ☐ ¾" **$95** $ _____

☐ **CEL 73 RADIOIMMUNOASSAY: AN HISTORICAL AND CLINICAL PERSPECTIVE** Rosalyn S. Yalow, M.D.
check format ☐ 40 slides/tape **$65** No Videotape $ _____

☐ **CEL 74 INSTRUMENTATION OF THE 80's AND BEYOND ('86)** Gerd Muehllehner, Ph.D.
check format ☐ 44 slides/tape **$65** ☐ VHS **$85** ☐ Beta **$85** ☐ ¾" **$95** $ _____

☐ **CEL 75 THE IN VIVO INORGANIC CHEMISTRY OF TECHNETIUM CATIONS ('86)**
Edward A. Deutsch, Ph. D. ☐ 26 slides/tape **$45** No Videotape $ _____

☐ **CEL 76 METABOLISM OF MONOCLONAL ANTIBODIES IN LIVER AND TUMOR ('86)**
Howard Sands, Ph.D. ☐ 33 slides/tape **$45** No Videotape $ _____

☐ **CEL 77 ADVANCES IN THYROID, ADRENAL AND PARATHYROID GLAND IMAGING ('86)**
Martin P.Sandler, M.D. ☐ 108 slides/tape **$65** No Videotape $ _____

☐ **CEL 78 ARTIFACTS IN SPECT TI-201 AND GATED BLOOD POOL IMAGING ('86)** E. Gordon DePuey, M.D.
check format ☐ 37 slides/tape **$65** ☐ VHS **$85** ☐ Beta **$85** ☐ ¾" **$95** $ _____

☐ **CEL 79 STATE-OF-THE-ART GALLIUM IMAGING IN LYMPHOMA ('86)** Sabah S. Tumeh, M.D.
☐ 64 slides/tape **$65** No Videotape $ _____

☐ **CEL 80 SINGLE PHOTON BRAIN IMAGING ('86)** Richard Holmes, M.D.
check format ☐ 34 slides/tape **$65** ☐ VHS **$85** ☐ Beta **$85** ☐ ¾" **$95** $ _____

☐ **CEL 81 QUALITY ASSURANCE: RADIOASSAY ('86)** Martin L. Nusynowitz, M.D.
check format 59 slides/2 tapes **$100** **No Videotape** $ _____

☐ **CEL 82 NUCLEAR ACCIDENT MANAGEMENT ('86)** Eugene L. Saenger, M.D.
☐ 94 slides/2 tapes **$95** No Videotape $ _____

☐ **CEL 83 RADIATION PROTECTION CONSIDERATIONS IN NUCLEAR MEDICINE THERAPY ('86)**
James E. Carey, M.S.
☐ 51 slides/tape **$65** No Videotape $ _____

☐ **CEL 84 FUNCTIONAL BRAIN IMAGING: NEW RADIOPHARMACEUTICALS ('86)** R.D. Neirinckx, M.D., Peter Ell, M.D. and Neils Lassen, M.D ☐ 204 slides/2 tapes **$100** No Videotape $ _____

☐ **CEL 85 COMPARISON OF DUAL PHOTON ABSORPTIOMETRY SYSTEMS ('86)** William L. Dunn, M.D.
check format ☐ 40 slides/tape **$65** ☐ VHS **$85** ☐ Beta **$85** ☐ ¾" **$95** $ _____

☐ **CEL 86 IN VIVO APPLICATIONS OF MULTINUCLEAR NMR SPECTROSCOPY AND IMAGING ('86)**
Thomas G. Perkins, Ph.D.
check format ☐ 81 slides/tape **$65** ☐ VHS **$85** ☐ Beta **$85** ☐ ¾" **$95** $ _____

☐ **CEL 87 TECHNETIUM-99m TRACER REPLACEMENTS FOR THALLIUM CARDIAC IMAGING ('86)**
B.Leonard Holman, M.D.
check format ☐ 44 slides/tape **$65** ☐ VHS **$85** ☐ Beta **$85** ☐ ¾" **$95** $ _____

☐ **CEL 88 NUCLEAR MEDICINE MILESTONES ('86)** William G. Myers, M.D., Ph.D.
check format ☐ 94 slides/2 tapes **$95** No Videotape $ _____

☐ **CEL 89 Tc-99m RADIOPHARMACEUTICALS: THE NEXT GENERATION ('86)** Maria P. Liteplo, Ph.D.
check format ☐ 46 slides/tape **$65** ☐ VHS **$85** ☐ Beta **$85** ☐ ¾" **$95** $ _____

☐ **CEL 90 MONOCLONAL ANTIBODIES: DIAGNOSTIC IMAGING AND THERAPEUTIC APPLICATIONS ('86)** Brian Gallagher, Ph.D. ☐ 32 slides/tape **$65** No Videotape $ _____

☐ **CEL 91 EXCERCISE RADIONUCLIDE ANGIOCARDIOGRAPHY FOR PROGNOSIS OF CORONARY ARTERY DISEASE ('86)** Robert H. Jones, M.D.
check format ☐ 22 slides/tape **$45** ☐ VHS **$65** ☐ Beta **$65** ☐ ¾" **$75** $ _____

TOTAL PROGRAMS $ _____

For shipping in the U.S., please add **$5.00 per order.** Outside the U.S., please add **$10.00 per order.** $ _____

TOTAL AMOUNT $ _____

Name _____

Address _____

_____

City _____

State _____ **ZIP** _____

Telephone (_____) _____

Make check payable to:
SOCIETY OF NUCLEAR MEDICINE
P.O. Box 11307
Chicago, Illinois 60611 -0307
(312) 943-0450

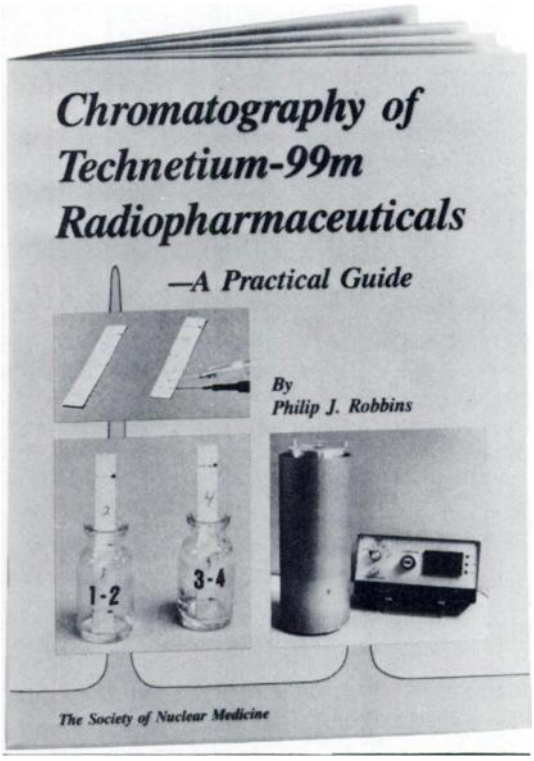
Foto-Comm Corp. of Chicago is the distributor for SNM audiovisuals.

See SNM's other publications at RSNA Booth No. 3501

Circle Reader Service No. 157

Chromatography of Technetium-99m Radiopharmaceuticals —A Practical Guide

By Philip J. Robbins



To provide up-to-date information about the most accurate procedures for ensuring quality control of radiopharmaceuticals, The Society of Nuclear Medicine has published *Chromatography of Technetium-99m Radiopharmaceuticals—A Practical Guide.*

This important manual offers readers a collection of miniaturized chromatographic methods for the rapid and precise determination of the radiochemical purity of commonly used Tc-99m radiopharmaceuticals.

Topics covered include the nature and source of impurities, principles and classic techniques of chromatography, methods for counting miniature chromatographic strips, and pitfalls of miniature methods and how to avoid them. Also contained herein is a listing of each radiopharmaceutical with the USP criteria for radiochemical purity, typical scans of impure products, and standards and interlaboratory comparisons for miniaturized systems.

Prepared to aid nuclear medicine personnel in implementing voluntary quality-assurance programs, the material may also be used as a training resource for individuals preparing for professional licensure and certification.

8½ × 11" softcover, 48 pages
$ 8.00 SNM members;
$10.00 non-members
Publication Date: January 1984

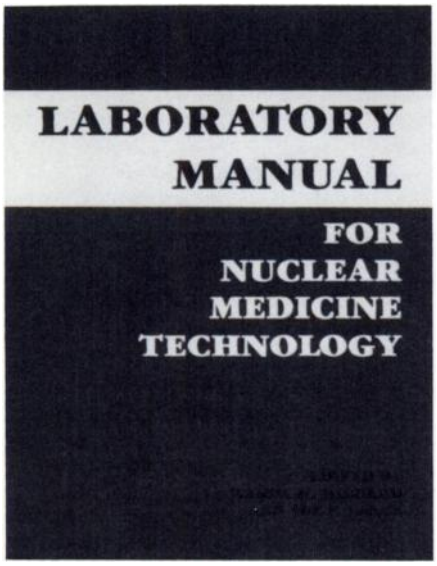
Ordering Information:

Add $2.50 postage and handling for each book ordered. Prepayment required in U.S. funds drawn on U.S. banks only. For payments made in U.S. dollars, 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. *Prices are in U.S. dollars and are subject to change without notice.*

The Society of Nuclear Medicine, Book Order Dept. 1187J
136 Madison Avenue, New York, NY 10016-6760, (212)889-0717

See SNM's other publications at RSNA Booth No. 3501

Circle Reader Service No. 176



LABORATORY MANUAL for Nuclear Medicine Technology

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

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

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

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

ABBREVIATED CONTENTS

CONTRIBUTORS

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

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

ORDER NOW!

$14.00 per copy for members; $16.00 for non-members. Add $2.50 postage and handling for each book ordered. If ordering in bulk quantities, contact the Order Dept. for postage fees. Prepayment is required in US funds drawn on US banks only. No foreign funds are accepted. For payments made in US dollars 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, Book Order Dept. 1187J
136 Madison Avenue, New York, NY 10016-6760
(212)889-0717

See SNM's other publications at RSNA Booth No. 3501

Prices are in US dollars and subject to change without notice.

Circle Reader Service No. 175

A·T·T·E·N·T·I·O·N SNM MEMBERS

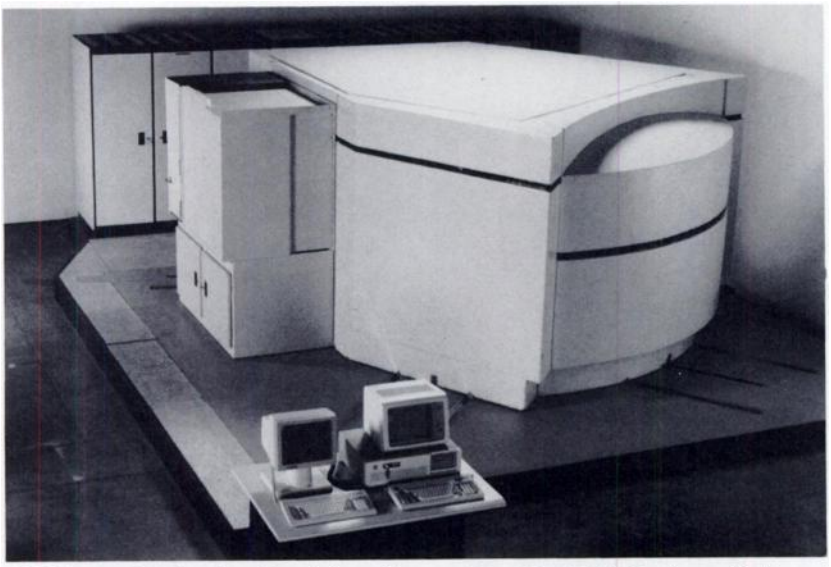
The Society of Nuclear Medicine recently sent two mailings of a manpower survey to selected institutions and individuals for the third and final mailing.

We are calling upon you for your help. If you receive a copy of this survey please fill it out and return it to The Society of Nuclear Medicine no later than *November 23, 1987.* The success of this survey depends on you. Thank you for your cooperation.

Manpower Committee
The Society of Nuclear Medicine

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.*

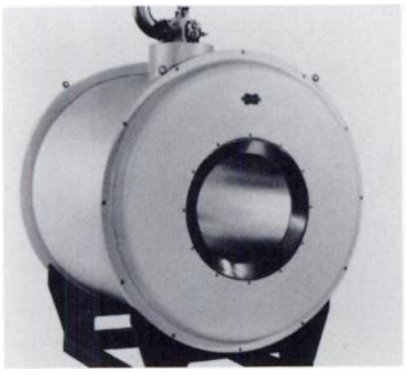
Compact Radioisotope Delivery System



CTI Group, Inc. has introduced the self-shielded RDS Model 112 Radioisotope Delivery System which is capable of automatically producing and delivering the major positron-emitting isotopes. The 11 MeV energy of the RDS is high enough to produce substantial quantities of positron emitters but low enough to offer practical shielding of neutron flux, according to the company. Four targets, carbon-11, nitrogen-13, oxygen-15, and fluorine-18, can be mounted to the RDS simultaneously, utilizing stripping foils for beam extraction instead of electrostatic extractors. Two targets can be irradiated concurrently via the computer-controlled insertion of two stripping foils into the beam path. Yields are: ^{11}C 1.3 Ci (40 min. at 30A), ^{13}N 0.3 Ci (10 min. at 40A), ^{15}O 1.8 Ci (10 min. at 40 A), and ^{18}F 1.2 Ci (110 min. at 20 A), according to CTI. Production of a specific radiochemical is accomplished by stepping through a set of menu selections on the terminal display, and the command language allows users to create their own synthesis procedures. A general-purpose chemical process control unit (CPCU) allows the automated routine synthesis of a variety of radiochemicals labeled with positron-emitting radioisotopes. For example, [^{18}F]fluoride ion is used to prepare [^{18}F]2-deoxy-2-fluoro-D-glucose in radiochemical yields greater than 50%, according to the company. **CTI Group, Inc., 810 Innovation Dr., Knoxville, TN 37932.**

Circle Reader Service No. 101

60-cm Magnet for NMR Imaging and Spectroscopy In Vivo



Bruker Instruments, Inc. has introduced a large bore diameter (60 cm) magnet operating at a field strength of 2.35 tesla. The magnet is compatible with the Bruker Medspec/Biospec system, and can be used for imaging and spectroscopic analysis of limbs, extremities, and animals. Other specifications include: ^{1}H frequency, 100 MHz; maximum subject diameter, 30 cm; height, 230 cm; length, 167 cm. **Bruker Instruments, Inc., Manning Park, Billerica, MA 07932.**

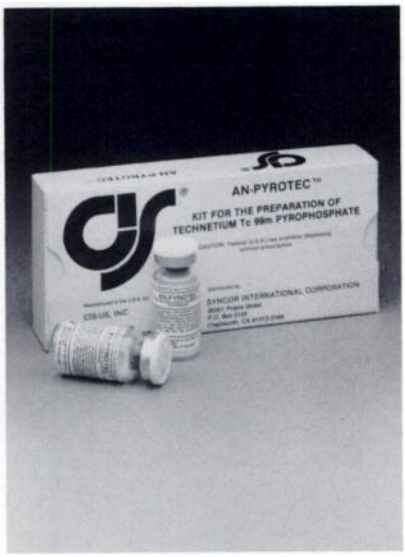
Circle Reader Service No. 102

Iodine-125 Sealed Source

Medi-Physics, Inc. has introduced an iodine-125 sealed source, produced by Cintichem, Inc., for use in single-photon absorptiometers. The sealed source, a double encapsulation of ^{125}I, "provides the photon energy needed to measure bone mineral content in patients suspected of having osteoporosis," said Medi-Physics. Available in activities from 100 mCi to 1,000 mCi, it has a high level of purity, according to the company, with the level of ^{126}I less than 0.002%. Medi-Physics said that it provides a complete sealed source service system, including a depleted sealed source return package and disposal of the depleted source. **Cintichem, Inc., P.O. Box 816, Tuxedo, NY 10987.**

Circle Reader Service No. 103

Pyrophosphate Reagent Kit



CIS-US, Inc. will market a pyrophosphate cold kit under the brand name An-Pyrotec. It contains 5 10-ml multidose reaction vials, each with 12.0-mg sodium phosphate and from 2.8 mg to 4.9 mg stannous tin as stannous chloride dihydrate. An-Pyrotec, which may be stored at room temperature both before and after reconstitution, is indicated for gated blood pool studies, myocardial infarct imaging, and bone imaging exams. Approximately 76% of the injected activity remains in the blood pool, according to the company. **CIS-US, Inc., 1983 Marcus Ave., Lake Success, NY 11042-1016.**

Circle Reader Service No. 104

SOME SEALED SOURCE PRICES ARE HIGHWAY ROBBERY.

Don't let overpriced Gadolinium-153 sealed sources hold-up your bone densitometry operation.

GNI offers you high-quality sealed sources at a competitive price -- and we can get them to you anywhere in the world, *fast!*

Circle Reader Service No. 41

THE SOURCE

For research and diagnostic sealed sources.

To find out more, call, write or telex for our complete catalog and current price list.

GNI INCORPORATED

202 Medical Center Boulevard
Webster, Texas 77598
Telephone: (713) 332-3581
Telex: 586473

See us at RSNA Booth No. 3726

The patient presents with left hemiplegia. His CT is perfectly normal. So is his MRI scan.

Despite the miracles of modern diagnostics, medicine still suffers dark shadows.

Soon, Medi-Physics will illuminate a few.

medi+physics®

ROCHE®

a subsidiary of Hoffmann-La Roche Inc.

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

Circle Reader Service No. 30