TECHNETIUM 99m GENERATORS
Technetium Tc 99m Generators for the Production of Sodium Pertechnetate Tc 99m

20 Sizes
Optimum depleted Convenient—Satisfying from vesico-ureteral Sodium imaging, Irom 80% 99 Each 99 should into m WARNINGS: per on 99 Sodium Open/Closed account saline 20 to been used for reflux time generator. Technetium 99m imaging may be conducted in human milk during lactation, and therefore formula feedings should be substituted for breast feedings. Pregnancy Category C Animal reproductive studies have not been conducted with Technetium Tc 99m. It is also not known whether Technetium Tc 99m can cause fetal harm when administered to a pregnant woman or can affect reproducibility of Technetium Tc 99m should be given to a pregnant woman only if the expected benefit to be gained clearly outweighs the potential hazards. Indicated examinations using radiopharmaceuticals, especially those effective in nature, of a woman of childbearing capability should be performed during the first few (approximately 10) days following the onset of menses. Nursing Mothers Technetium Tc 99m is excreted in human milk during lactation, and therefore formula feedings should be substituted for breast feedings. Pediatric Use See INDIICATIONS AND USAGE, DOSAGE AND ADMINISTRATION. See also description of additional risk under WARNINGS. Radiopharmaceuticals should be used only by physicians who are qualified by training and experience in the safe use and handling of radiopharmaceuticals, and whose experience and training have been approved by the appropriate government agency authorized to license the use of radionuclides. The generator should not be used after 16 days of the date and time of calibration. At time of administration, the solution should be crystal clear. ADVERSE REACTIONS: Allergic reactions including anaphylaxis have been reported infrequently following the administration of Sodium Pertechnetate Tc 99m.

HOW SUPPLIED: Sodium Pertechnetate Tc 99m is supplied as a Molybdenum Mo 99/Tc 99m generator in sizes from 830 millicuries up to 16,000 millicuries (in approximately 830 millicuries increments) of Molybdenum Mo 99 as of 10:00 P.M. Eastern Time of the day of calibration. The TECHNETIUM Tc 99m GENERATOR consists of: 1) sterile generator, 2) Sodium Chloride injection source, 3) 10 cc sterile evacuated vials, 4) sterile needles, 5) elution vial shield* 6) finished drug labels. Elution vials in 5 cc and 20 cc sizes are available upon request.

*Initial order only.

The TECHNETIUM Tc 99m GENERATOR should not be used after sixteen (16) days from the date and time of calibration. For multiple use, the elute should be used within 12 hours of the generator elution time. If the elute is used to reconstitute a kit, the radiolabeled kit should not be used after 12 hours from the time of generator elution or 4 hours after reconstitution of the kit, whichever is earlier.

CINTICHEM INC., Tuxedo, N.Y. 10987 SUBSIDIARY OF MEDI-PHYSICS, INC. APRIL 1985
RADIOISOTOPE RECORD
Date: Jul 16, 1984
Time: 8:11 A.M.
Isotope: Tc-99m
Sample #: 1
Activity: 798. mCi
Volume: 20.0 ml
Conc: 39.9 mCi/ml
Dose: 5.80 mCi

RADIOISOTOPE RECORD
Date: Jul 16, 1984
Time: 8:12 A.M.
Isotope: Tc-99m
Sample #: 1
Activity: 788. mCi
Volume: 20.0 ml
Conc: 39.9 mCi/ml
Dose: 5.80 mCi

COMP-U-CAL™
Fully-Computerized Radioisotope Calibrator

- Provides a printed, permanent record of date, time, isotope activity, concentration, syringe volume, assay results, for easy regulatory compliance.
- Calculates concentration and volume for any desired dose, corrected for decay for a whole day, or for a single dose.
- Automatic calculation of 99Mo assay on 99mTc samples.

PERFORMANCE GUARANTEED... ONLY $4,900

Radioisotope Calibrators from Nuclear Associates...

PERFORMANCE GUARANTEED*

DELUXE
ISOTOPE CALIBRATOR
Offers a fast, accurate means of measuring the activity of radioisotope doses.
PERFORMANCE GUARANTEED
ONLY $3,975

CAL/RAD™ II
Provides the budget-conscious lab with a reliable and economical calibrator system. Optional printer available.
PERFORMANCE GUARANTEED
ONLY $1,495

The Price/Performance Leader in Radioisotope Calibrators

*N100% SATISFACTION GUARANTEED!
If for any reason you are not completely satisfied with a Nuclear Associates product, it may be returned within 30 days of shipment for full credit.

Visit us at RSNA in Chicago, Booth 3557

To find out how to get the kind of GUARANTEED PERFORMANCE you need, call or write for details. Request Bulletin 340-B.

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

Circle Reader Service No. 2
OUR CONCERN FOR YOUR IMAGES...

CIS-US through its CIS line of products has earned a place as a pioneer in biomedical technology. We’re known internationally for our exceptional R&D capability, for our years of experience and service to the health care market, and for our development of a comprehensive range of superior-quality products. You may already trust and rely on our medical imaging products distributed by Syncor. When you see the CIS-US name, be assured of continued excellence. YOU KNOW OUR QUALITY. NOW YOU KNOW OUR NAME.

CIS-US offers you exceptional clarity with: Calibration and Q.C. Sources.

Our comprehensive line of Calibration and Q.C. Sources for nuclear medicine has been developed to ensure maximum reliability for diagnostic imaging ...to provide more efficient treatment, increased patient comfort, and cost-control.

CIS-US Calibration and Q.C. Sources include:

- **Dose calibrators** as single vials and sets of up to four radionuclides: Cobalt-57, Cobalt-60, Cesium 137, and Barium 133.
- **Cobalt-57 flood sources** as a highly effective means of quality control for gamma cameras, with or without collimators, in a convenient range of diameters and activities.

Plus accessories to assist you in obtaining well defined images in:

- **Penpoint markers** to clearly identify an area during your camera studies.
- **Flexible markers** to define the organ or area you are imaging.
- **Radioactive ruler** to determine dimensions of an anatomical area on a scintigram.
- **Spot markers** to check the position of the gamma camera in relation to your patient’s orientation, plus to mark image reference points.

For more information, contact Syncor, our exclusive distributor, at (800) 435-0165; in California, (818) 898-1511.

distributed: SYNCOR International Corporation
12847 Arroyo Street • Sylmar, CA 91342

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

Circle Reader Service No. 3
For Diagnosis, Prevention, and Patient Management of Osteoporosis and Other Metabolic Bone Diseases and Disorders

**Single Photon?**

Osteoporosis afflicts up to 20 million Americans and leads to 1.3 million fractures each year. One in five women with hip fractures (40,000) dies, and another 20% are permanently crippled. The medical, nursing home, and social cost of osteoporosis and its consequences comes to $6 billion in the U.S. each year.

Yet, with the development of clinical bone densitometry instruments, nuclear medicine may now move into a new era of service—the identification and management of those persons most at risk to develop osteoporosis and other bone disorders and diseases. You can support attending physicians in their efforts to prevent crippling osteoporosis by identifying patients at risk and by participating in effective management programs.

No greater opportunity exists to practice preventive medicine. Now, you can contribute to the day when proud people need not become victims of their own bodies, need not become stooped and frail, need not live in fear of falling. You can contribute to the growing awareness that osteoporosis is preventable.

ND 1100A Bone Density Scanner

Single photon absorptiometry
1 percent precision
For distal/proximal forearm scans
Rectilinear scanning
Computer-assisted site search for serial studies
Dual Photon?
Both?

The Choice Is Yours
For precise measurement of bone mineral content (to within 1%) of both cortical and trabecular bone, the ND 1100A single photon bone densitometer is unsurpassed. This instrument utilizes rectilinear scanning of the distal forearm for precise determination of very slight changes in bone mineral content over relatively short periods. Computer-assisted site search assures reproducibility of the results, no matter how much time elapses between measurements, permitting long-term evaluation of minute changes in bone mineral content.

For site-specific visualization of the lumbar spine and femur, the ND 2100 dual photon spine scanner provides clear, high resolution images permitting direct evaluation of the state of the trabecular bone in these crucial areas. Featuring a powerful multifunctional computer, fast data processing with large storage capacity, and sophisticated softwear, the ND 2100 densitometer is ideal for the clinical environment.

ND 2100 Spine/Femur Scanner
Dual photon absorptiometry
Accurate visualization of lumbar spine/femur
Unparalleled image quality
Permits direct evaluation

Committed to Imaging Excellence
Nuclear Data, Inc.
Instrumentation Division
ND Medical Products
Golf and Meacham Roads
Schaumburg, Illinois 60196
Tel: 312/884-3636
An Uncommon Concern for Quality

The NORLAND Model 2600 Dichromatic Bone Densitometer System. The clear choice in bone density measurement for: Lumbar Spine Analysis, Hip Analysis, Whole Body Analysis, Local Region Analysis, and Normals Comparison. And Norland is busy right now developing new application software.

These software packages allow you to make better-informed decisions because you get the data you need in a clear, concise, easy to interpret format.

The hardware is designed for extended performance and versatility. Multi-tasking capabilities, large buffer memories and concurrent operations combine for easy set-up, along with quicker scanning and data analysis.

And we back it all with a continuing commitment to match our technology with your future requirements. A commitment that always includes our ongoing support and service; and a customer-first attitude you thought was a thing of the past.

Call us today at 800-742-1042 to discuss your requirements. We respond.

We match technology with commitment

NORLAND

A cordis COMPANY

Norland Corporation
Norland Drive, Fort Atkinson, WI 53538
Tel: U.S. Toll-free 1 (800) 742-1042
In Wis.: (414) 563-8456 Telex: 26-5448

In Europe:
Nordland Scientific Instruments B.V.
Van Houten Industriepark 11
1381 MZ Weesp, The Netherlands
Tel: (31) 2940-9935 Telex: 18330 NORLD

Visit Us This Month at 3 SNM Meetings:
Western Regional, Oct. 9-12
Greater NY/New England Regional, Oct. 17-19
Southeastern Chapter, Oct. 31-Nov. 2
And, in November at the RSNA in Chicago

Circle Reader Service No. 5
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.
State-of-the-art dose calibration is achieved through our family of radioisotope calibrators. Capintec pioneered this technology over 15 years ago, and we've continually refined it through the years with features like sophisticated electronics, future dose calibration, easier operation, and a host of other improvements. It's kept us the standard of the industry.

Left ventricular studies in ambulatory patients are now a reality, thanks to Capintec's Ventricular Evaluation System (VEST). This unit, which evaluates changes in LV function during ischemia in patients with coronary artery disease, also provides a number of cardiac parameters, including ejection fraction (EF).

Capintec plus technology. On a wide variety of fronts, this combination is an active force in exploring new techniques in nuclear medicine, as well as enhancing old ones. All to help you improve patient care.


Circle Reader Service No. 7

EXPANDING THE BOUNDARIES OF NUCLEAR MEDICINE.
In Nuclear Medicine, we offered the integrated digital gamma camera — first. Now, Elscint's APEX Family continues the innovation with a full line of field-proven diagnostic imaging equipment for all your needs.

Our cost-effective APEX SPECT system and unique, large-field APEX 409M mobile system both incorporate advanced hardware to give you better performance. You also get faster processing and greater efficiency with Elscint's high-speed, multi-processor architecture.

The new APEX-009, combined with revolutionary APEX software, means greater diagnostic flexibility. For example, our exclusive CLIP™ software lets you easily create your own unique procedures using hundreds of pre-programmed clinical processing functions.

We're continuing the innovation in Nuclear Medicine and diagnostic imaging.
"There is no higher religion than human service. To work for the common good is the greatest creed."

Albert Schweitzer

For Syncor, performing human service means helping you increase the time you dedicate to individual patient care. It means putting a 12 year track record into each of the 14,000 radiopharmaceutical orders we fill daily. It means continually setting new standards for quality, responsiveness and cost effectiveness.

**Syncor service means added value.** We have the industry's broadest selection of radiopharmaceuticals available whenever you need them — 24 hours a day, every day of the year. Our delivery and waste disposal services increase efficiency and decrease radiation exposure in 5,000 hospitals and clinics.

**Syncor service means knowledgeable personal attention.** We put 1,500 employees to work for you.

Supporting you from our 80 Medical Services Centers are 250 licensed nuclear pharmacists, and sales representatives with clinical experience in nuclear medicine.

Syncor's goal is to serve the common good by providing uncommonly good service to you. To find out more about how Syncor service can help you provide better patient care, call us today.

Syncor International Corporation
Sylmar, California 91342
(800) 435-0165  (818) 365-8151

Circle Reader Service No. 9
NOW! The OSTEOANALYZER™ from Siemens—precise bone densitometry for osteoporosis screening and monitoring

Because early intervention and appropriate therapy can make a significant difference to patients at risk of osteoporosis; accurate, routine screening of perimenopausal and postmenopausal patients is as important as your ability to monitor patients on osteoporosis therapy.

The OSTEOANALYZER is designed to meet your osteoporosis screening and monitoring needs within realistic financial guidelines. It is a compact, cost-effective, easy-to-operate system designed for use in private and group practices and as a self-contained system in hospitals or free-standing imaging centers.

The system consists of a sophisticated refinement of the basic rectilinear scanner developed and used in the NASA space program, plus a specially-configured IBM® PC computer.

- Small and compact
- Easy to operate without extensive training
- Easily updatable, state-of-the-art electronics
- Versatile: allows screening and monitoring at both trabecular and cortical sites
- Noninvasive
- NRC approved shielded, locked source holder
- Approved for third-party reimbursement

In addition, the OSTEOANALYZER is sold, supported and serviced by Siemens—the world's most experienced and responsive medical imaging company.

Contact your Siemens representative for more information, call or write:

Siemens Medical Systems, Inc.
2000 Nuclear Drive
Des Plaines, IL 60018
(312) 635-3160

Siemens…technology with integrity.
Has our latest development left the opposition going round in circles?

Undoubtedly yes! Scintronix already produces the finest gamma cameras in the world for Nuclear Medicine. With the QUESAR (Quasi-Elliptical-Self-Adaptive-Rotation) Tomographic Digicamera — our latest advance in nuclear medicine scanners — we are introducing a new dimension in efficient and practical tomography.

The secret of our outstanding performance? — our ability to use the exceptional stability and strength of our gantry unit together with precision control of the positional drive system to perform highly accurate and reproducible contour scans (with precession errors of less than one millimetre).

We have also eliminated the need for time consuming and uncomfortable patient pallet movements during acquisitions — another important consideration in establishing patient trust and confidence. Essential for effective and meaningful tomographic imaging.

And with its unique orbit selection capability, the Scintronix QUESAR system maximises the accuracy and definition of the image and optimises the camera’s ability to accommodate the full range of patient sizes.

To stay even further ahead of the pack, we offer a complete range of advanced clinical software with our QUESAR scanners, ranging from multiple oblique angle reconstruction software with user available filter generation to full Fan Beam capability for brain imaging. Is it any wonder our competitors are going round in circles?
Cadema

Gives You Diagnostic Confidence!

- ECONOMICAL
- MULTIPLE VIEWS
- DEVICE FDA APPROVED
- MINIMUM RADIATION EXPOSURE
- CLINICALLY SUPERIOR to XENON (matched perfusion & ventilation views for the complete picture)

Cadema Medical Products, Inc.
P.O. Box 250, Middletown, New York 10940
(914) 343-7474 or toll free 800-422-3362 (outside NY State)
SUMITOMO'S ULTRA COMPACT CYCLOTRON FOR ON-THE-SPOT PRODUCTION OF POSITRON Emitter FOR MEDICAL DYNAMIC IMAGING.

Coupled with our Automatic Radiochemistry System, Sumitomo CYPRIS Cyclotrons offer outstanding performance especially for use in hospital environments.

Among other things, CYPRIS Systems offer such advanced features as:

- **Simple, neat arrangement of components**
  - Single dee and the fewer number of components in our cyclotron allow the machine to be compact, small in size and weight, and ideal for installation in tight spaces.

- **Easy operation**
  - Simply touch four push buttons for beam acceleration.

- **Short time start-up**
  - It takes only ten minutes to produce gaseous $^{15}$O, $^{15}$O, and $^{15}$O$_2$.

- **Computer control**
  - Microprocessor control keeps monitoring status of operations via CRT. Malfunctions, if any, can be traced with ease, permitting quick trouble-shooting.

- **Wide coverage of radiochemistry systems**
  - Our range of radiochemistry systems covers nearly all the RI labelled compounds in use in medical diagnosis including $^{11}$C-methyl iodide, $^{11}$C-cyanide, $^{13}$N-ammonia, $^{15}$O-water, and $^{18}$F-fluorodeoxiglucose.

- **Adaptability to additional radiochemistry systems**
  - Modification of the computer program in the Universal Controller will easily open the way for use with any new radiochemistry systems.

This merely scratches the surface of the Sumitomo CYPRIS System.

For details, please contact SUMITOMO at the address below.

SUMITOMO HEAVY INDUSTRIES, LTD.

SUMITOMO HEAVY INDUSTRIES, Ltd., 1 Kanda Mitsuo-cho, Chiyoda-ku, Tokyo 101, JAPAN Phone: (03) 296-5188 Telex: J24580 (ABB SUMIJUKA)

SUMITOMO Heavy Industries (USA), Inc. One World Trade Center, Suite 3669, New York, N.Y. 10048, U.S.A. Phone: (212) 432-0572 Telex: 141461 (SUMUJKI NYK)

Houston Branch: Eleven Greenway Plaza, Suite 1520, Houston, Texas 77046, U.S.A. Phone: (713) 627-9556 Telex: 792-122 (SUMUJKI HOU)

Sales Agent in North America: Medi Physics Inc. 4050 Lakeside Drive, Richmond CA. 94806, U.S.A. Phone: (415) 222-8006
LUNAR's scientists pioneered dual-photon absorptiometry (DPA) and have made LUNAR the world leader in bone densitometry. High-resolution imaging of the clinically critical proximal femur, as well as the spine, gives LUNAR DP3 unparalleled flexibility. Low cost, low dose and high reliability make it acceptable to referring physicians and patients time after time. The DP3 virtually eliminates the fat errors of QCT (10–50%) and has a low inter-scanner variation that allows a nationwide normal database for clinical comparison. Can you afford to fall behind with QCT, when you can get ahead with a winner?

LUNAR DP3
Bank on a Winner!

- Intelligent scans that reduce scan area, scan time, and patient exposure
- Multiple sites
- Graphics displays – ultrafast, high-resolution images
- Large normal database of US subjects
- Accuracy/precision based on physically correct algorithms
- High patient throughput (5–20 minute scan) with multitasking
- Sophisticated software that takes the guesswork out of scanning
- Medical physics support from our in-house staff
- Software updates – free-of-charge
- Service – 1-year warranty with 24-hour response
- Operational ease – menu-driven, automated software
- Clinical consultation via modem
- Marketing “turnkey” program

Our customers comprise over 85% of all clinical facilities using dual-photon absorptiometry. They selected the DP3 because LUNAR's exclusive know-how ensures trouble-free, question-free operation. Ask a user why LUNAR is the world's leading manufacturer of single and dual photon instrumentation.

Circle Reader Service No. 12

313 West Beltline Highway
Madison, WI 53713 U.S.A.
(608) 274-2663
Telex: 5106013857
The Society of Nuclear Medicine

34th Annual Meeting
June 2–5, 1987 (Tuesday–Friday)
Toronto, Ontario, Canada

INTENSIVE LEARNING OPPORTUNITIES FOR ALL NUCLEAR SPECIALISTS

Toronto, Canada, will be the backdrop of our thirty-fourth Annual Meeting. The meeting includes four days of intensive learning opportunities interspersed with exciting social events. Sites that are unique to Toronto, will house our get-togethers.

SCIENTIFIC PAPERS

This year's presentation of over 600 scientific papers 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 presentations.

CONTINUING EDUCATION COURSES

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.

TECHNOLOGIST PROGRAM

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 contributions to nuclear medicine.

EXPOSITION

More than 1,800 exhibitors from over 90 pharmaceutical and equipment manufacturers will display their latest products in a lively atmosphere. These knowledgeable commercial representatives offer the technical depth our field demands, and they are valuable sources of timely and pertinent information.

AUDIOVISUALS, BOOKS, JOURNALS

The Society of Nuclear Medicine is continually 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 announcements are available at special locations throughout the meeting as well as membership information at our membership booth.

Registration: $120 SNM members; $215 nonmembers
Hotels: $90 average rate/night (American $)

If you need further information, please contact:

The Society of Nuclear Medicine
Education and Meetings Department
136 Madison Avenue
New York, N.Y. 10016-6784
(212)889-0717 Telex: 650-295-7177

Circle Reader Service No. 14
Simplicity

Visit us at the RSNA in Chicago, Booth 2415

The RADX ISOTOPE DOSECALIBRATOR 1001 is so easy to operate, it's automatic.

RADX presents the easy way to improve your assay. The RADX DC1001 is a fully digital isotope dosecalibrator. With push-button operation you accurately and easily assay isotope radioactivity.

The ten most frequently used medical isotopes are preprogrammed for one touch operation of the membrane switch keyboard. Over 30 more isotopes may be entered via the keyboard. The RADX DC1001 provides expansion to program isotopes of the future.

<table>
<thead>
<tr>
<th>10 Pre-programmed Isotopes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technetium 99m</td>
</tr>
<tr>
<td>Molybdenum 99</td>
</tr>
<tr>
<td>Cesium 137</td>
</tr>
<tr>
<td>Chromium 51</td>
</tr>
<tr>
<td>Cobalt 57</td>
</tr>
</tbody>
</table>

Technology
RADX features the best available microprocessor electronics. Take your choice of Curie or Becquerel assay. Activity readout time takes just 4-10 seconds.

The exclusive RADX ion chamber has set a standard for performance since 1968. It delivers long term reproducibility, linearity and dependability. Only RADX offers an electronic isolator as a standard component. This feature assures assays are not affected by energy spikes in the electrical power source.

For simplicity, accuracy, and flexibility, depend on RADX. For a closer look, call RADX 713/468-9628, write 1390 West Belt Drive North, Houston, Texas 77043.

Circle Reader Service No. 15

The Automatic Way to Assay
AMR's AccuSync provides R-wave detection with precision and reliability. The finest R-wave Triggering device available for computerized gated cardiac studies.

**AccuSync-5R 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**

AccuSync-6

AccuSync-IR

AccuSync-2R
AccuSync-2M

AccuSync-3

AccuSync-4

**FEATURES**

- All AccuSync-5R features with the exception of the Strip Chart Recorder.

- All AccuSync-5R features with the exception of Digital CRT Monitor.

- All AccuSync-IR features incorporated into a Module designed to fit into certain Mobile cameras.

- All AccuSync-IR features with the exception of the Strip Chart Recorder, Playback Mode and Audio Indicator.

- All Accu Sync-3 features with the exception of the Heart Rate/R-R int. display.

ADVANCED MEDICAL RESEARCH

Visit us at RSNA in Chicago, Booth 5511

148 Research Drive
Milford, CT 06460/Telephone: (203) 877-1610

Circle Reader Service No. 16
Medical positions with North Carolina Memorial Hospital, Chapel Hill, NC, are available. Positions are available in radiation and nuclear medicine. Applicants must be board certified or eligible in radiology and must have licensure requirements met. The hospital employs a team of 350 and offers a competitive salary and benefits package. The hospital is located in a suburban area located in Chapel Hill, NC, with a population of 60,000. The hospital is affiliated with the University of North Carolina at Chapel Hill, which has a highly ranked program in radiologic sciences. The hospital offers a comprehensive benefits package, including health, dental, and vision insurance, as well as a retirement plan.

The hospital is located in a suburban area located in Chapel Hill, NC, with a population of 60,000. The hospital is affiliated with the University of North Carolina at Chapel Hill, which has a highly ranked program in radiologic sciences. The hospital offers a comprehensive benefits package, including health, dental, and vision insurance, as well as a retirement plan.

The hospital is located in a suburban area located in Chapel Hill, NC, with a population of 60,000. The hospital is affiliated with the University of North Carolina at Chapel Hill, which has a highly ranked program in radiologic sciences. The hospital offers a comprehensive benefits package, including health, dental, and vision insurance, as well as a retirement plan.

The hospital is located in a suburban area located in Chapel Hill, NC, with a population of 60,000. The hospital is affiliated with the University of North Carolina at Chapel Hill, which has a highly ranked program in radiologic sciences. The hospital offers a comprehensive benefits package, including health, dental, and vision insurance, as well as a retirement plan.

The hospital is located in a suburban area located in Chapel Hill, NC, with a population of 60,000. The hospital is affiliated with the University of North Carolina at Chapel Hill, which has a highly ranked program in radiologic sciences. The hospital offers a comprehensive benefits package, including health, dental, and vision insurance, as well as a retirement plan.

The hospital is located in a suburban area located in Chapel Hill, NC, with a population of 60,000. The hospital is affiliated with the University of North Carolina at Chapel Hill, which has a highly ranked program in radiologic sciences. The hospital offers a comprehensive benefits package, including health, dental, and vision insurance, as well as a retirement plan.

The hospital is located in a suburban area located in Chapel Hill, NC, with a population of 60,000. The hospital is affiliated with the University of North Carolina at Chapel Hill, which has a highly ranked program in radiologic sciences. The hospital offers a comprehensive benefits package, including health, dental, and vision insurance, as well as a retirement plan.

The hospital is located in a suburban area located in Chapel Hill, NC, with a population of 60,000. The hospital is affiliated with the University of North Carolina at Chapel Hill, which has a highly ranked program in radiologic sciences. The hospital offers a comprehensive benefits package, including health, dental, and vision insurance, as well as a retirement plan.

The hospital is located in a suburban area located in Chapel Hill, NC, with a population of 60,000. The hospital is affiliated with the University of North Carolina at Chapel Hill, which has a highly ranked program in radiologic sciences. The hospital offers a comprehensive benefits package, including health, dental, and vision insurance, as well as a retirement plan.

The hospital is located in a suburban area located in Chapel Hill, NC, with a population of 60,000. The hospital is affiliated with the University of North Carolina at Chapel Hill, which has a highly ranked program in radiologic sciences. The hospital offers a comprehensive benefits package, including health, dental, and vision insurance, as well as a retirement plan.
Shape Tomorrow In A Kingdom On The Move... Saudi Arabia

NUCLEAR MEDICINE TECHNOLOGIST

Discover. Grow. Learn. Just some of the great benefits of making the healthcare career move you'll remember for a lifetime to the King Faisal Specialist Hospital and Research Centre in Riyadh, Saudi Arabia.

Here, you'll find an international team of dedicated, highly-skilled healthcare professionals. You can become a part of this team as they deliver state-of-the-art care in the Kingdom's premier facility.

Positions are currently available for candidates who have completed an accredited Nuclear Medicine Program and who are certified as Nuclear Medicine Technologists with at least 2 years hospital nuclear medicine experience including routine studies and nuclear cardiology.

Salaries are attractive and potentially tax-free for those who qualify. The exceptional benefits include furnished lodging, free transportation, 30-day annual paid vacation, bonus pay and bonus leave. Positions are single status for a 24-month commitment. The selected candidate will be employed by and have a contract with the Government of the Kingdom of Saudi Arabia.

It’s a rare chance to combine your love of discovery with your professional growth. Explore the possibilities at the King Faisal Specialist Hospital and Research Centre. For further information and/or to apply, please send your resume to: HCA International Company, Dept. JNM-1086, P.O. Box 550, Nashville, TN 37202 or call toll-free (800) 251-2561. HCA is an Equal Opportunity Employer.

HCA International Company

MEDICAL EQUIPMENT SALES

LUNAR, the world leader in bone measurement, is seeking experienced professionals in direct sales to be based in Los Angeles, San Diego, Denver and Buffalo, NY. Experience in Nuclear Medicine/Radiology instrument sales preferred. Help market the next generation of bone measurement instrumentation. Send resume and salary history to:

LUNAR
Personnel Department
313 West Beltline Hwy.
Madison, WI 53713

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO SCHOOL OF MEDICINE

A Nuclear Medicine resident position is available beginning July 1, 1987 for a two-year program at San Francisco General Hospital Medical Center.

The program, approved by the ACGME and satisfying the requirements of the American Board of Nuclear Medicine, includes didactic instruction in radiological physics and mathematics, electronics, radiation safety, dosimetry, and nuclear medicine instrumentation.

Practical experience is provided in performance and interpretation of static and dynamic imaging, computer techniques, radioimmunoassay and other in vitro studies, radiopharmacy, and therapy with radionuclides. Residents participate fully in the integration of these modalities into patient care.

Prerequisites: Prior training in an ACGME-approved program in internal medicine, pathology, pediatrics, or radiology.

The University of California is an equal opportunity, affirmative action employer.

Requests for further information (include CV) should be directed to:

Myron Pollycove, MD
Chief, Nuclear Medicine Department
San Francisco General Hospital Medical Center
San Francisco, CA 94110
CHIEF NUCLEAR MEDICINE TECHNOLOGIST

West Virginia University Hospitals, Inc., seeks a dynamic individual to provide supervision of technical and secretarial staffs of the Nuclear Radiology section.

The successful candidate must be certified in Nuclear Medicine Technology by the ARRT or an equivalent registry. Five years experience as a Staff or Senior Nuclear Medicine Technologist preferred.

This position offers a competitive salary and comprehensive flexible benefits package. Please send resume to: Office of Personnel Services.

NUCLEAR MEDICINE TECHNOLOGIST

Large southwest hospital has an opening for a full-time registered (ARRT/NMTCB) technologist. Full range of diagnostic studies for adult and pediatric patients. Computer knowledge desirable. Must have progressive attitude. Send resume to: L. Swindell, RTR, RTN, CNMT, Harris Hospital Methodist, 1301 Pennsylvania Ave., Fort Worth, TX 76104 "Attn: Nuclear Medicine—Radiology Department".

EXECUTIVE DIRECTOR

Nuclear Medicine Technology Certification Board (NMTCB), offices located in Atlanta, Georgia, desires individual with extensive management ability and reasonable knowledge of nuclear medicine. Salary commensurate with education and experience. Please send resume to: George W. Alexander Jr., CNMT, Chairman, NMTCB, 2138 Madison Road, Unit H, Cincinnati, OH 45208.

NUCLEAR MEDICINE RESIDENCY (2 years) and FELLOWSHIP (1 year)

positions available for 1987-88. 2,000+ bed medical center state-of-the-art planar and tomographic equipment. Strong programs with cardiology, oncology, Active monoclonal antibody program. Ample opportunity for research. Send C.V. to Michael E. Siegel, M.D., Director Nuclear Medicine, LAC/USC Medical Center, 1200 N. State Street, Los Angeles, CA 90033.

LAC/USC Medical Center is an Equal Opportunity Employer

VETERANS ADMINISTRATION MEDICAL CENTER
718 SMYTH ROAD
MANCHESTER, NEW HAMPSHIRE 03104

The VA Medical Center in Manchester, New Hampshire is rapidly expanding services offered by our diagnostic radiology department. We are seeking a nuclear medicine technologist with administrative skills and a background in diagnostic radiologic technology.

Candidates must be certified by the NMTCB or registered with the ARRT. In addition, candidates must have a bachelor's degree in chemistry, physics, health or biological science which was supplemented by at least 12 semester hours in nuclear medicine technology. Candidates must also possess 2 years of professional nuclear medicine technologist experience.

Interested candidates should send a resume to Joyce Dyer, Personnel Service, VA Medical Center, 718 Smyth Road, Manchester, NH 03104 or call (603)624-4366, Ext. 215 or 259 for further information.

An Equal Opportunity Employer

Mount Sinai Medical Center
Nuclear Medicine Physician

A key opening has become available at Mount Sinai Medical Center for physician with ABNM certification and 3-5 years experience in nuclear medicine, practice, research and teaching. Candidates should be eligible for appointment at the assistant or associate level. Send CV, examples of major publications and a statement of interest to: Stanley J. Goldsmith, MD, Director, Andre Meyer, Department of Physics/Nuclear Medicine, Mount Sinai Medical Center, 1 Gustav Levy Place, New York, NY 10029. EOE.

You may find it surprising that up to 60% of all cancers can be prevented. By avoiding excessive exposure to sunlight, by not smoking cigarettes, by not overeating and by following a diet high in fiber and low in fat.

The battle isn't over but we are winning.

Please support the American Cancer Society.
Diagnostix Plus is your Best Source for:

- **Re-manufactured Cameras**
  - Large Field (110's, 410's, 438's)
  - Small Field (100's, 400's)
  - Mobile (120's, 420's)

- **Camera Performance Upgrades**
  - Uniformity Correction (DUFC)
  - Resolution
  - Crystal Replacement
  - Whole Body Area Scan Conversion
  - New Tektronix 606B Displays
  - High Resolution Multi Imagery

- **Collimators**
  - Upgrades to Hexagonal Hole Cores
  - Insert Collimators
  - Collimator Repairs/Re-cores
  - A large selection of used collimators

- **Computers**
  - 450, 550, 560 Computers and accessories

For Ohio Nuclear®/Technicare® Upgrades, Accessories, and Systems Call us at:

(516) 742-1939

**Diagnostix Plus, Inc.**

100 Herricks Road
Mineola, N.Y. 11501

Cost Effective Diagnostic Imaging Products

Circle Reader Service No. 17

---

**Nuclear Medicine in Urology and Nephrology – Second Edition**

**PH O'Reilly**, Consultant Urologist, Stepping Hill Hospital, Stockport, Cheshire; **R A Shields** Chief Physicist, Manchester Royal Infirmary; and **H J Testa** Consultant in Nuclear Medicine, Manchester Royal Infirmary, Editors

- Up-to-date
- Contributions from leading experts
- Complete coverage of principles and clinical application
- High quality illustrations

The second edition of Nuclear Medicine in Urology and Nephrology reflects the many advances in the subject. It gives an informative and well-balanced account of the scientific principles and clinical applications. The urologist and nephrologist will continue to be able to rely on this book for advice about radionuclide techniques in the management of kidney and urinary problems. Those with a professional interest in nuclear medicine and medical physics will find that their specialist needs have also been covered.

**Major sections:** I Techniques • II Clinical applications • III Basic principles • Index

1986 304 pp 0 407 00322 3 $135.00

Circle Reader Service No. 18

Butterworth Publishers, Dept S119, 80 Montvale Avenue, Stoneham, MA 02180

---

**This publication is available in microform.**

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 48106. Call us toll-free for an immediate response: 800-521-3044. Or call collect in Michigan, Alaska and Hawaii: 313-761-4700.

☐ Please send information about these titles:

Name ____________________________________________

Company/Institution ________________________________

Address __________________________________________

City _____ State _____ Zip _____

Phone ( ) ______________________

University Microfilms International
The Sixth Conjoint Winter Meeting is sponsored by the SNM Computer, Instrumentation and Radiopharmaceutical Science Council.

Abstracts of original contributions are welcome from members of the Society and nonmembers. All abstracts are to be presented orally and will be published in a subsequent issue of the JNM.

Please check appropriate boxes:

This abstract represents:
- [ ] a scientific or technical paper
- [x] a clinical paper

Please indicate Council classification of paper:
- [ ] Computer
- [ ] Instrumentation
- [ ] Radiopharmaceutical
- [ ] none of the above

Topic classification:
- [ ] Brain Perfusion
- [ ] Heart Perfusion
- [ ] Other Perfusion
- [ ] other

Send original and four (4) photocopies of abstract and supporting data (if supporting data is submitted, must be limited to one (1) page) to:

Michael M. Graham, Ph.D., M.D.
Program Chairman
Society of Nuclear Medicine
Attn: Abstracts
136 Madison Avenue
New York, NY 10016-6784

(212) 889-0717
Society of Nuclear Medicine
(206) 548-4240
University of Washington

TYPE FULL NAME OF AUTHOR PRESENTING PAPER

List the name, address, and telephone number of the principal author who should receive all correspondence.

Name ____________________________________________
Institution _________________________________________
Division or Dept. ____________________________________
Street ______________________________________________
City __________________________ State ________ Zip ________
Phone Number (______) _____________________________

Abstracts must be received (not postmarked) by Wednesday, November 26, 1986.
Send original and four (4) photocopies of abstract and supporting data (if supporting data is submitted, must be limited to one (1) page) to:

Michael M. Graham, Ph.D., M.D.
Program Chairman
Society of Nuclear Medicine
Attn: Abstracts
136 Madison Avenue
New York, NY 10016-6784

(212) 889-0717 Society of Nuclear Medicine
(206) 548-4240 University of Washington

---

**SPECIFIC INSTRUCTIONS**

**Abstract forms**

Abstracts must be typed inside the blue rectangle on the first page of this form. Additional forms are available from the Society of Nuclear Medicine, 136 Madison Avenue, New York, NY 10016-6784, (212) 889-0717. Photocopies of the abstract form cannot be accepted as originals.

**Supporting data**

Supporting data may be submitted if, in the opinion of the contributor, the reader's understanding will be enhanced. Supporting data are not required, however, if submitted, supporting data must be limited to one page and stapled to each of the photocopies of the abstract to ensure that each reviewer has all of the information available.

**Format for title and body**

USE ALL CAPS for TITLE. Use initials, rather than full spelling, for authors' first and middle names. Single space all typing, but leave a space between the title block and the body of the text. Indent each paragraph three spaces. Do not indent title. Draw special symbols in black India ink.

Make title brief, clearly indicating the nature of the investigation. Then state authors' names and institutional affiliation. Omit degrees, titles, institutional appointments, street address, and zip code.

**Organization of body of abstract**

Organize the body of the abstract as follows:

A statement of the purpose of the study (preferably one sentence).

A statement of the methods used.

A summary of the results presented in sufficient detail to support the conclusions.

A statement of the conclusions reached. It is not satisfactory to state, "The results will be discussed" or "other data will be presented", unless a scientific exhibit is being submitted.

Do not use subtitles, e.g., Methods, Results.

**IMPORTANT**

All abstracts accepted for the program will be considered for publication. To ensure quality printing, the instructions must be followed completely for all abstracts. Abstracts that do not conform will be either retyped by the publisher at a cost of $40.00 to the author or will not be printed.
When all else fails.

Good diskettes are good enough. Some of the time.

But if you ever get one that won’t format or loses data, you’re going to wish you’d used the better diskette, Dysan.

If the name DYSAN is not on the diskette you are using, then you may not have the better diskette. For the best name in magnetic media, call JRT ASSOCIATES

(212) 884-6674

The Computer Systems Expert

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.

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.

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

ABBREVIATED CONTENTS

| Part II: Instrumentation | Part IV: Radiopharmacy | Part VI: Patient Care |

ORDER NOW!

$14.00 per copy for members; $16.00 for nonmembers. 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, Technologist Section
136 Madison Avenue, Book Order Dept. 986J
New York, NY 10016-6784 (212)889-0717

Prices are in US dollars and subject to change without notice.
A Dose Of Common Sense.

Buying a dose calibrator which is specifically designed to save you both time and money, while maintaining the highest standards of quality and accuracy, is common sense. Radcal dose calibrators are designed exactly that way.

Radcal dose calibrators have advanced, state-of-the-art features which are standard. They are microprocessor-based, with auto-ranging digital controls (no knobs or dials), have wide dynamic ranges, easy-to-read LCD displays, Ci-Bq selection available, remote sensors, splash-proof lab-tough designs, built-in self-testing, moly breakthrough shield and high-protection sensor shielding.

Model 4050 — For meeting low cost requirements. Features an optional electronic bias supply — requires no batteries and has an RS-232 interface for remote monitoring.

Model 4045 — Is designed for the lab requiring a full range of self-generating records at a moderate price. This system has two printers — one, a self-contained patient dose and inventory printer and a second, larger printer which summarizes daily transactions. Its 80-key typewriter-style keyboard allows for quick, complete dose and inventory recording. An electronic bias supply is standard.

Compare Radcal's cost and features with other systems. You'll be pleased to see that we offer substantially more — at a lower price.

All systems feature a one-year warranty and are UL approved.

Radcal — the new standard.

Radcal Corporation
An mdh Company

426 W. Duarte Road
Monrovia, California 91016
In California telephone (818) 357-7921
Outside California (800) 423-7169
Telex # 18291O

Visit us at the RSNA in Chicago, Booth 1909
Cardiac Stress Testing System and Collimators
Engineering Dynamics Corp. (EDC) has introduced a nuclear cardiac stress testing system and collimators for gamma cameras. The model 8450 is a microprocessor-controlled ergometry system designed specifically for nuclear imaging of the myocardium during stress testing. EDC manufactures a line of collimators and mountings for all gamma cameras. A variety of models is available, including hexhole parallel, rotating 30° slant hole, diverging/converging, and seven pinhole in maximum energy ranges from 140 to 360 KeV. Engineering Dynamics Corp., 120 Stedman Street, Lowell, MA 01851.

Circle Reader Service No. 101

Multi-Imager 9 Film Recorder
Matrix Instruments Inc. has introduced the dual-format Multi-Imager™ 9, with a combination of film size and diagnostic image format options, which permits the buyer to specify “the most cost-effective match of high quality film recorder performance and specific application requirements,” according to the company. This addition to the Matrix® line of film recorders is suited for recording from computed tomography (CT), nuclear magnetic resonance imaging (NMRI), and digital radiography (DR) scanning systems. MI-9 uses on-board microprocessor control and on-axis imaging to produce diagnostic images on the preferred film sizes 14 × 17 in. and/or 11 × 14 in. At time of purchase, the user selects either square or rectangular images and specifies either one size or both film sizes. Further, a selection of dual formats, such as 4 and 9 (rectangular), or 6 and 12 (square), allows the buyer to choose from a total of eight possible combinations of image shape, formats, and film size. Matrix Instruments Inc., One Ramland Road, Orangeburg, NY 10962.

Circle Reader Service No. 102

New SPECT System Spatial Resolution Phantom
Nuclear Associates has introduced the SPECT System Spatial Resolution Phantom that measures line spread function according to NEMA protocol. It fits and tests all SPECT systems under clinical conditions, according to the company, and is built according to NEMA specifications. The new

Gamma Camera Guidelines
Siemens Medical Systems, Inc., has introduced “The Technical Edge—Nuclear Medicine Gamma Camera Systems,” a 28-page brochure that is divided into six chapters addressing specific operating functions: collimation, signal integration/count rate, energy correction, linearity correction, photo-multiplier tube gain control, and event-by-event uniformity correction. Siemens Medical Systems, Inc., 186 Wood Avenue South, Iselin, NJ 08830.

Circle Reader Service No. 104

Chromatography Vial Rack
Wheaton Instruments has introduced a 96-position chromatography vial rack. This rack is suited for storing and transporting 96-8mm chromatography vials such as those of Perkin Elmer and the Water WYSP vial. Each rack is constructed of chemically resistant polypropylene and features corner posts for stability when stacking the racks. The vial grid is alpha numerically indexed for easy sample identification. Wheaton Instruments, 1301 North 10th Street, Millville, NJ 08332.

Circle Reader Service No. 105

Transmission Cardiac Phantom
Medical Designs, Inc., has introduced the Danbury Heart™ transmission cardiac phantom. The Danbury Heart™ simulates both LV and RV volume curves as well as simulating a cardiac imaging signal. Other features include uniform BKGD, variable heart rate (60 and 120 bpm), variable ejection fraction, and a LED indicator. The Danbury Heart™ meets ALARA standards and reduces radiation exposure by eliminating solutions. Medical Designs, Inc., 178 Triangle Street, Danbury, CT 06810.

Circle Reader Service No. 106
GOOD NEWS.

we've made it better!

New widefield XYZ imaging table

Designed to meet the new technology of today's modern imaging.

The new Panoramic wide field XYZ imaging Table will accommodate all cameras and allows the clinician easy flexible operation. The main design component is the open cantilever style. In addition, the unique placement of the % plexiglass top permits flush positioning of the camera from below, eliminating the inches of "dead space" associated with other tables.

- For large field of view cameras, including G.E. Maxicameras.
- The camera can be placed flush to plexiglass top from underneath the table.
- No obstructions to the camera movement.
- Easy patient access.
- Vertical height adjustment.
- 6' wheels for easy mobility.
- XY top adjustment.
- Lightweight.
- 2 Velcro restraining straps.

Atomic Products Corporation

ATOMLAB DIVISION • ESTABLISHED 1949

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

Circle Reader Service No. 22
Thallous Chloride TI 201

For your patients, we have:

- Significantly increased our production to meet your demand... you get WHAT you want... WHEN you want it.
- Coast-to-coast distribution network which also allows you to receive Thallous Chloride TI 201 with other MPI products, saving multiple delivery charges.
- Precalibrated Thallium TI 201. Monday through Friday is now available.*

- Single dose vials for easy record keeping—one vial per patient.
- The most complete line of up-to-date radiopharmaceuticals in the industry.

Take advantage of us. Let MPI be your prime supplier.

*Activity at calibration time: 2.0 mCi at 10 p.m. Pacific Time. You receive 2.5 mCi per vial at noon of day preceding calibration.

Thallous Chloride TI 201

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

DESCRIPTION: Thallous Chloride TI 201 is supplied in isotonic solution as a sterile, nonpyrogenic diagnostic radiopharmaceutical for intravenous administration. Each unit dose contains 1 millicurie and each milliliter contains 2 millicuries of Thallous Chloride TI 201 at calibration time. pH adjusted to 5.5-6.0 with hydrochloric acid and/or sodium hydroxide. Contains no bacteriostatic preservative. Thallium TI 201 is cytotoxic and is essentially carrier-free. Radioisotopic purity at calibration time is at least 98.0% with less than 1.0% Thallium TI 200.1.0% Thallium 202 and 0.3% Lead 203. The concentration of each radioisotopic contaminant changes with time.

INDICATION AND USAGE: Thallium Chloride TI 201 may be used in cardiac imaging to define the extent 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).

CONTRAINDICATIONS: None known.

WARNINGS: When studying patients suspected or known to have myocardial infarction or ischemia, 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

General
Do not use after the expiration time and date (4 days after calibration time) stated on the label.
Discard vial after single use. Do not use if contents are turbid.
The patient dose should be measured by the appropriate radioactivity calibration system immediately prior to administration.
Ideally, examinations using radiopharmaceuticals, especially those electively in nature on a woman of childbearing capability should be performed during the first few (approximately 10) days following the onset of menses.

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

ADVERSE REACTIONS: Adverse reactions related to use of this agent have not been reported to date.

HOW SUPPLIED: Thallous Chloride TI 201 is supplied as a sterile, nonpyrogenic, isotonic solution in unit dose vials containing 1 millicurie. Each millicurie contains 2 millicuries of Thallous Chloride TI 201 at calibration time. Contains no bacteriostatic preservative.

Circle Reader Service No. 23

For More Information, Please Call (415) 222-8006, Inside California Toll Free (800) 772-2477, Outside California Toll Free (800) 227-0492

ROCHE
MED-PHYSICS, INC. RICHMOND, CALIF. 94806
SUBSIDIARY OF HOFFMANN-LA ROCHE INC.