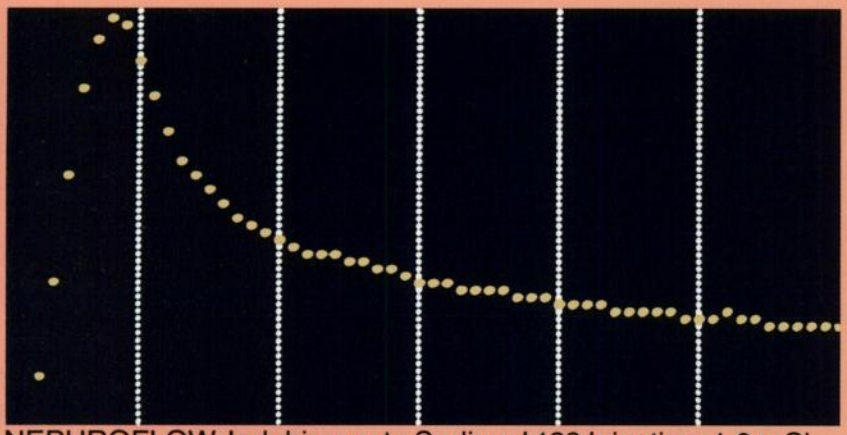
Introducing

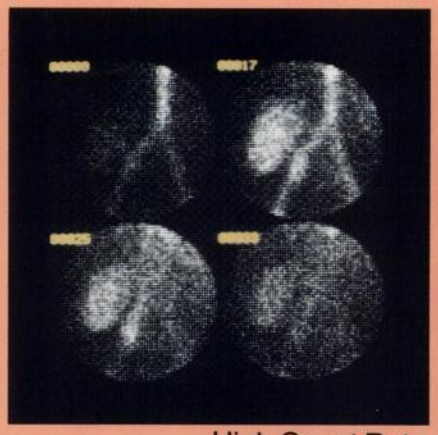
Nephroflow™

IODOHIPPURATE SODIUM I 123 INJECTION

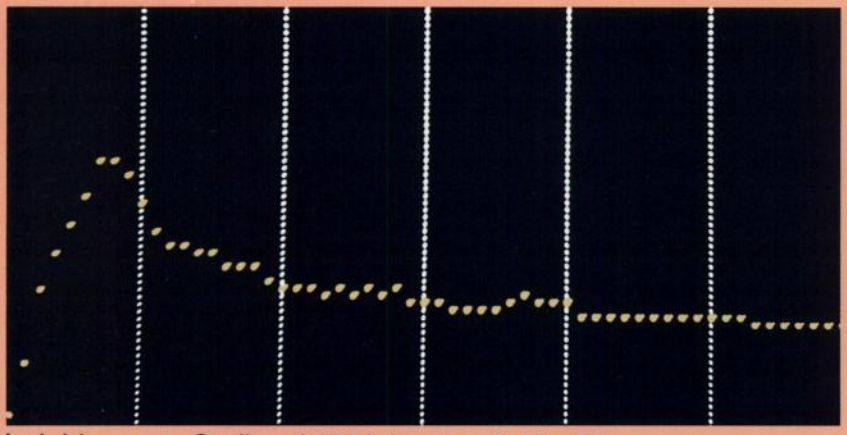
Normal Transplant Renogram[1]



NEPHROFLOW, Iodohippurate Sodium I 123 Injection, 1.0 mCi



High Count Rate
High Detector Efficiency



Iodohippurate Sodium I 131 Injection, 0.15 mCi

Low Count Rate
Low Detector Efficiency

NEPHROFLOW provides better counting statistics and higher data density.

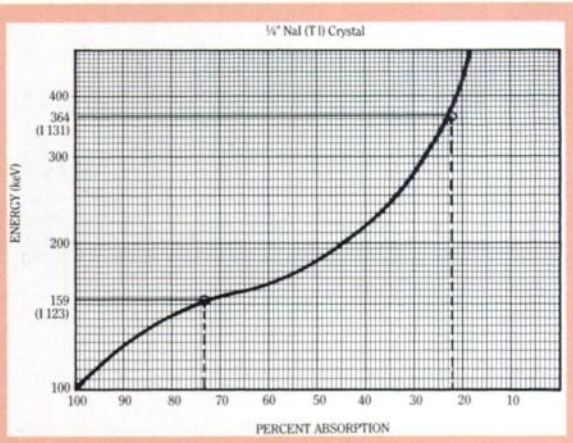
Now Available 2 mCi Vial

To Order call (800) MEDI-123

[1]Reference: Data on file, Medi-Physics, Inc., Richmond, CA

Nephroflow™

- Particularly useful in obstructed patients
- Slight advantage in photon intensity
- Major advantage in ¼ inch crystal efficiency
- Imaging should be performed as close to calibration time as possible



Comparison of I 123 and I 131

Characteristic	I 123	I 131
Mode of Decay	Electron capture	Beta⁻
Half-Life	13.2 hours	193 hours
Principal Gamma Energy (keV)	159	364
Intensity	84%	82%
Half-Value layer, lead, cm	0.037	0.24
Detection Efficiency:		
¼" NaI (Tl) crystal	74.5%	22.5%

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NEPHROFLOW™
IODOHIPPURATE SODIUM I 123 INJECTION

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

DESCRIPTION: Iodohippurate Sodium I 123 Injection is supplied as a sterile, apyrogenic, aqueous, isotonic saline solution for intravenous administration. Each milliliter of the solution contains 37 megabecquerels (1 millicurie) Iodohippurate Sodium I 123 at calibration time, 2 milligrams Iodohippurate Sodium, 1 percent benzyl alcohol (as a preservative), 9 milligrams per milliliter sodium chloride for isotonicity, and up to 0.1 percent ethanol. The solution is buffered with sodium phosphate and the pH is adjusted to 7.0-8.5 with sodium hydroxide or hydrochloric acid. The radionuclidic composition at calibration time is not less than 94.7 percent I 123, not more than 4.8 percent I 124, and not more than 0.5 percent all others (I 125, I 126, I 130, Na 24, Te 121). The radionuclidic composition at expiration time is not less than 85.5 percent I 123, not more than 12.9 percent I 124, and not more than 1.6 percent all others.

INDICATIONS AND USAGE: Iodohippurate Sodium I 123 Injection is a diagnostic aid in determining renal function, renal blood flow, and urinary tract obstruction, and as a renal imaging agent.

CONTRAINDICATIONS: None Known.

WARNINGS: None Known.

PRECAUTIONS:

General

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

Do not use after the expiration time and date (24 hours after calibration time) stated on the label.

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

Iodohippurate Sodium I 123, as well as other radioactive drugs, must be handled with care and appropriate safety measures should be used to minimize radiation exposure to clinical personnel. Care should also be taken to miminize radiation exposure to the patient consistent with proper patient management.

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

Carcinogenesis, Mutagenesis, Impairment of Fertility

No long term animal studies have been performed to evaluate carcinogenic potential, mutagenicity potential, or whether Iodohippurate Sodium I 123 affects fertility in males or females.

Pregnancy Category C

Animal reporduction studies have not been conducted with this drug. It is also not known whether Iodohippurate Sodium I 123 can cause fetal harm when administered to a pregnant woman, or can affect reproductive capacity. Iodohippurate Sodium I 123 should be given to a pregnant woman only if clearly needed.

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

Nursing Mothers

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

Pediatric Use

Safety and effectiveness in children have not been established.

ADVERSE REACTIONS: As with all organic iodine containing compounds, the possibility of allergic reactions must be kept in mind. Nausea, vomiting, and fainting have been reported in conjunction with the administration of Iodohippurate Sodium I 123.

HOW SUPPLIED: Iodohippurate Sodium I 123 Injection is supplied in nominal 3.5 ml vials as a sterile, nonpyrogenic, aqueous, isotonic saline solution for intravenous injection. Each milliliter contains 37 megabecquerels (1 millicurie) of Iodohippurate Sodium I 123 at calibration time.

It is available, in individual vials, in the following sizes:
MPI Catalog No. 2041; 1 ml and 37 megabecquerels (1 mCi) per vial
MPI Catalog No. 2042; 2 ml and 74 megabecquerels (2 mCi) per vial

Vials are packaged in individual lead shields with plastic outer container.

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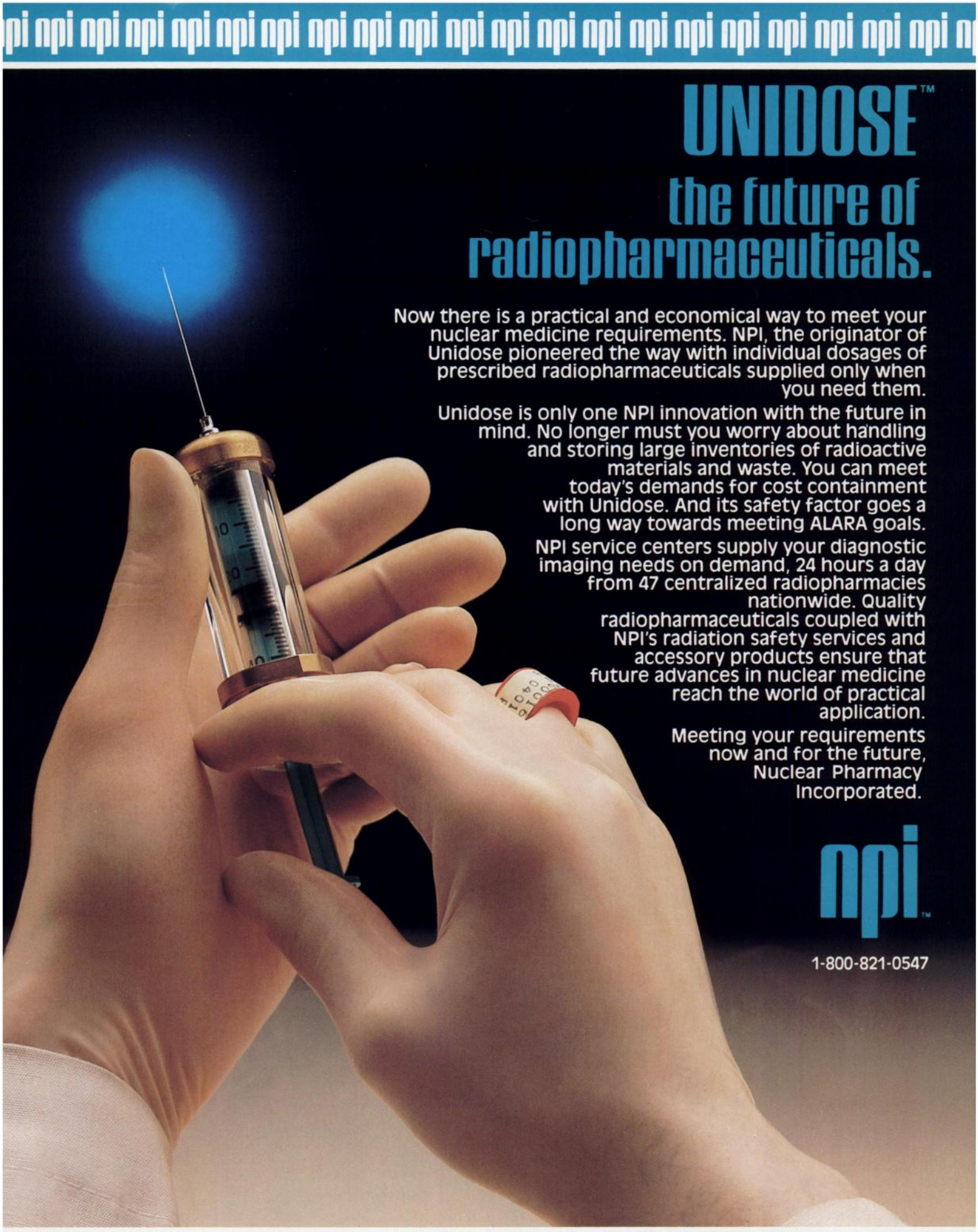
Circle Reader Service No. 2



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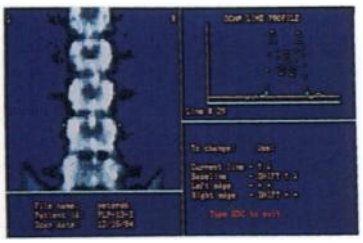
Circle Reader Service No. 7

LUNAR DP3-XT/AT, The Unique Clinical Solution For Bone Densitometry



Over a decade of research and clinical testing has gone into the LUNAR DP3 dual-photon spine/femur scanners. LUNAR scientists pioneered both single and dual-photon absorptiometry and helped LUNAR become the world's largest manufacturer of bone measurement instrumentation.

LUNAR now offers the IBM-XT and AT* as options to our acclaimed DP3 scanner. Advanced features of the DP3-XT/AT include:

–Multi-tasking
–Automated peaking
–High-resolution color graphics
–Hard-disk storage

LUNAR continues to set the standard for bone measurement. These new features, plus a light-localizer and a belly-band, add to the DP3's proven capability.

Contact us to see why the clinical leaders have turned to LUNAR with confidence.

Ask A User!

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 and because of distinct advantages such as:

–**Intelligent scans** that reduce scan area, scan time, and patient exposure.
–**Multiple sites**—lumbar spine, proximal femur, tibia, proximal humerus and other areas
–**Graphics displays**—ultrafast, high-resolution images
–**Normal database** of US subjects
–**Accuracy/precision** based on physically correct algorithms
–**High patient throughput** with 15-minute scans
–**Sophisticated software** that takes the guesswork out of scanning
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LUNAR
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CORPORATION

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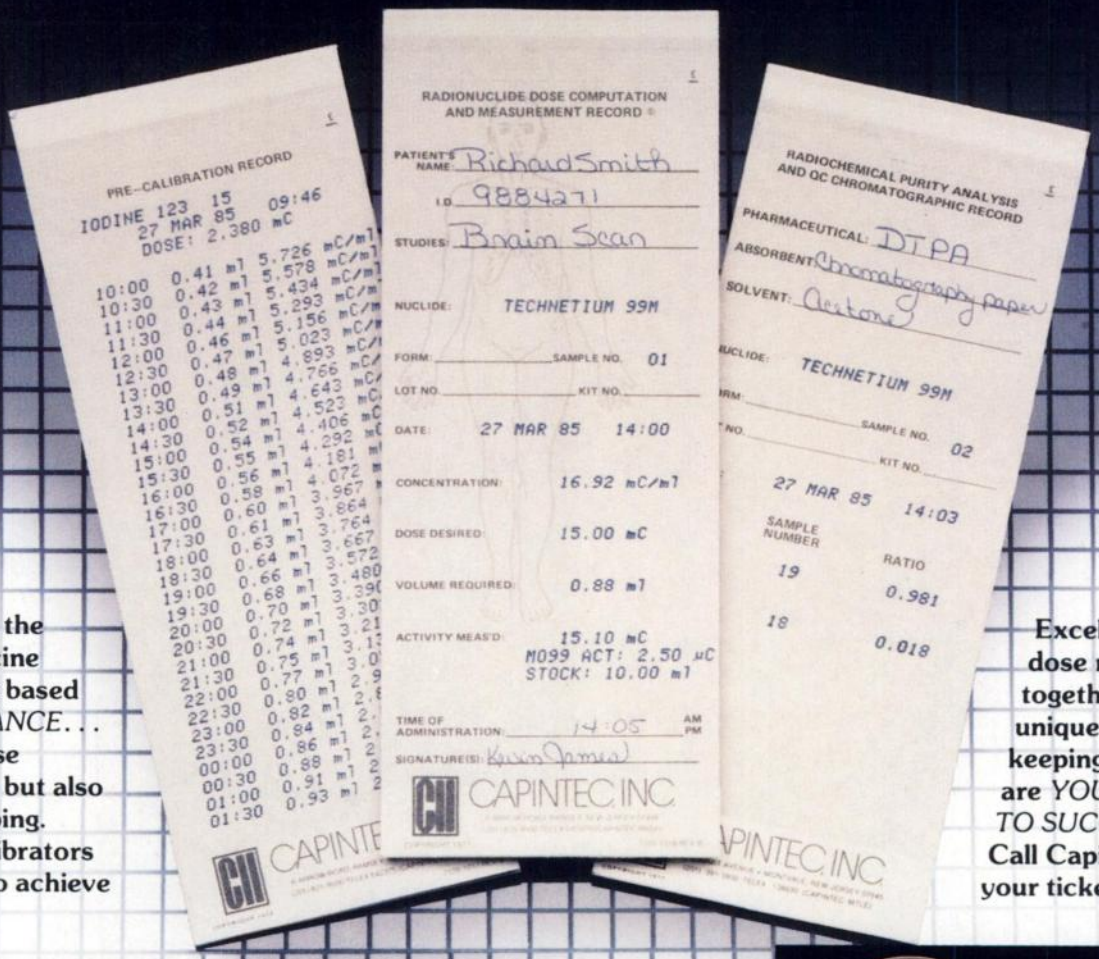
Circle Reader Service No. 8

YOUR TICKETS TO SUCCESS.



"*SUCCESS*" in the Nuclear Medicine Department is based on *PERFORMANCE*... not only of dose measurement, but also of record keeping. Capintec's calibrators make it easy to achieve that success.

Excellence in dose measurement together with a unique record keeping system are *YOUR TICKETS TO SUCCESS.* Call Capintec to reserve your tickets . . . *TODAY.*

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Circle Reader Service No. 9

Some tiny packages really deliver

Introducing the Starcam integrated nuclear diagnostic imaging system

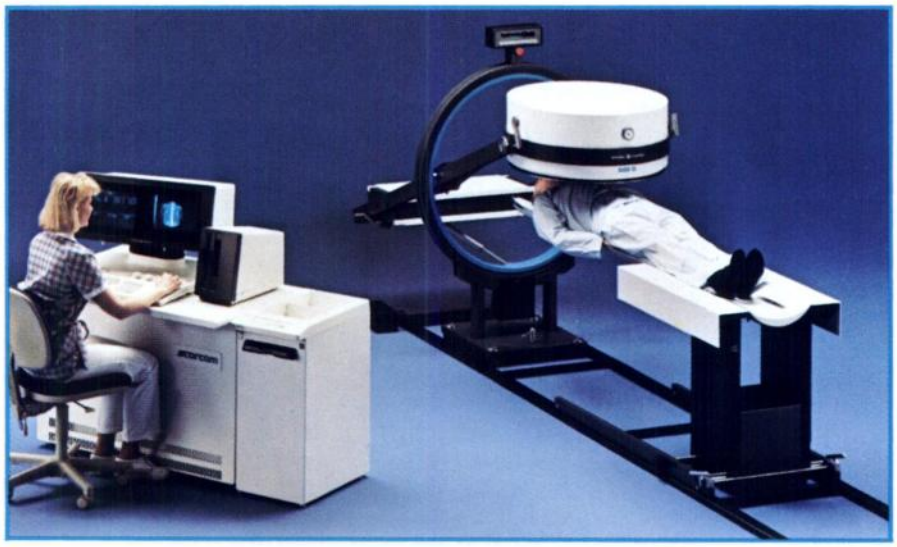
The revolution in nuclear imaging

Using advanced digital technology, General Electric has engineered a totally compact, *integrated nuclear diagnostic system* that gives you exceptional imaging capability and enhanced departmental productivity . . . in a single system. With the Starcam™ system, *all* acquisition functions are computer controlled. That means peak camera performance is maintained at all times, providing consistently high quality images. Our large image monitor offers acquisition and display in matrices up to 512^2, making images easier to view and giving you the best possible resolution.

Evolution backed by experience

The Starcam system is the technological evolution of our Star® system data processor and MaxiCamera® line. It's entirely compatible with existing Star systems through floppy data transfer and the future Starlink™ network. Starcam's modular digital design makes it adaptable to technological enhancements; a feature that lets you broaden the scope of your imaging capabilities as innovations in technology are made.

Starcam



Starcam is available in 300, 400 and 500 mm configurations and as a fully mobile unit complete with a versatile 300 mm detector. And General Electric's field proven Autotune® detectors, integrated to the Starcam system, automatically adjust photo multiplier tubes "on-the-fly," stabilizing camera performance and reducing system downtime and maintenance caused by PM tube drifting.

Digital "on-the-fly" energy and spatial corrections provide improved linearity, uniformity and overall image resolution.

Performance you can count on

Starcam incorporates five high-speed microprocessors, two of them 16-bit multi-tasking units, that work together in a distributed processing fashion. Combined with an integrated Array Processor (optional), this delivers exceptional computing capability, essential when performing studies such as ECT.

Starcam features dual central processing units with over two megabytes of very high-speed expandable memory that's directly accessible for display and processing. An 84-megabyte Winchester disc, standard with Starcam, gives you more than twice the data storage available with other systems.

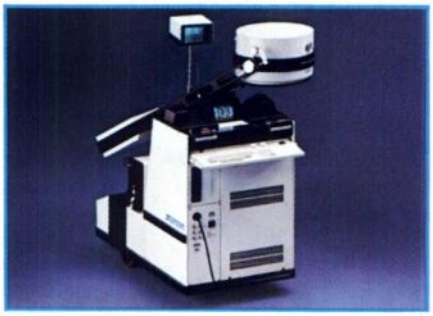
The bottom line...productivity

Starcam is a breakthrough in imaging technology. It provides today's nuclear departments with procedural capabilities unsurpassed by any other system. It redefines the operation of your department, eliminating many time-consuming functions without compromising the diagnostic value of the information obtained. The result is a more effective, efficient imaging department; one that optimizes diagnostic capability without jeopardizing the economic well-being of your health care institution.

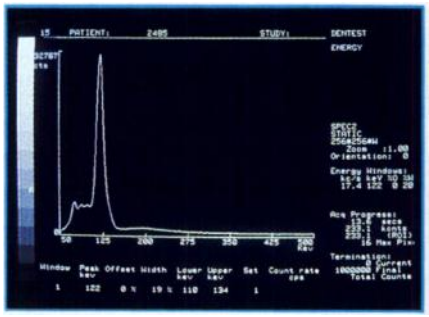
Starcam represents General Electric's continued commitment to developing nuclear diagnostic imaging technology that's innovative today and designed to stay that way tomorrow.

For more information, call our toll-free number today:

1-800-433-5566. Ext. 5501



A fully mobile unit, complete with a versatile 300 mm detector, is available for remote imaging.



Starcam allows precise digital control of all detector parameters for up to three energy windows.

Starcam is available in 300, 400 (shown) and 500 mm configurations.

Circle Reader Service No. 10

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THE POWER OF ESP-1 (Eberline Smart Portable) FOR MEDICAL APPLICATIONS:

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   - surfaces, hands, clothing, etc.
   - wipe testing of radioactive packages and sealed sources

2. EXTERNAL QUANTIFICATION OF ACTIVITY
   - radioactive fibrinogen uptake
   - thyroid uptake or burden of radioiodine

3. RADIATION EXPOSURE RATE SURVEYS
   - patients undergoing brachytherapy or nuclear medicine therapy
   - X-ray exposure rate surveys
   - radioactive package surveys

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More than a bold new logo that symbolizes a new approach to the diagnostic imaging marketplace—

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with a prime focus on your current and future needs in nuclear medicine.

A renewed commitment
to nuclear imaging—backed by 16 continuous years of proven performance.

A new level of support
with the resources of one of the world's leading technological, quality-oriented companies.

A new sense of innovation
that stems from attention to *both* advanced technology and the fundamentals critical to nuclear imaging.

The result: All-new systems for nuclear imaging. Systems with more power. More capability. More features than you've ever seen before.

Because, in 1985—if it's new in nuclear imaging, it's from Raytheon.

Raytheon
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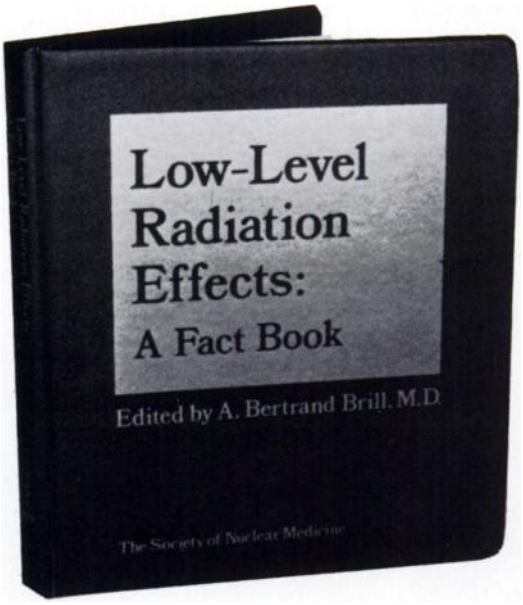
Raytheon: Excitement in nuclear imaging.

SNM announces the 1985 updates to . . .

Low-Level Radiation Effects:
A Fact Book

Edited by
A. Bertrand Brill, M.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. Because radiation exposure is an important and controversial topic, so much material is available. This fact book contains a concise reference list for readers wishing to obtain additional, or more detailed, information.

Important new sources of information provided the stimulus for publishing the 1985 updates to keep the fact book current. New reports issued by UNSCEAR, ICRP, and NCRP and references to recent publications of findings among Japanese A-bomb survivors have been added.

Available alone, or included with the original document, the 1985 updates will prove indispensable to a wide range of physicians, scientists, engineers, and technologists involved in the field.

"Only when information issued in a publication such as this becomes widespread and understood can rationality prevail in the public's attitude toward low-level radiation."

— from the Foreword by
Rosalyn Yalow, Ph.D.
Nobel Laureate

Contents

**8½ × 11″ looseleaf format: original text, 156 pages, including binder;
1985 updates, 80 pages, without binder.**

**Prices: $32.00 for original document plus 1985 update package
$10.00 for 1985 update package purchased alone**

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The Raytheon Spectrum 150-DT: Nuclear medicine made faster...more exacting.

Spectrum 150-DT is the first totally integrated, digital nuclear imaging system with *complete* attention to detail throughout. For *complete* diagnostic imaging opportunities.

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- Ultra large, rectangular, high-resolution field of view.
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MEDICAL EQUIPMENT DIVISION

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- ECG Strip Chart Recorder.
- Heart Rate/R-R int.
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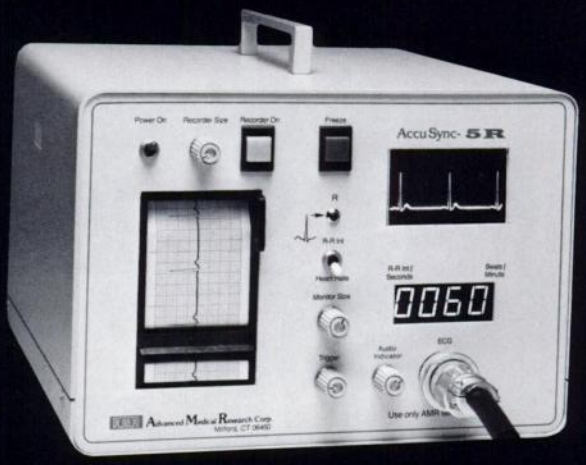
- Audio Indicator.



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AccuSync-IR		All **AccuSync-5R** features with the exception of Digital CRT Monitor.
AccuSync-2R AccuSync-2M		All **AccuSync-IR** features incorporated into a Module designed to fit into certain Mobile cameras.
AccuSync-3		All **AccuSync-IR** features with the exception of the Strip Chart Recorder, Playback Mode and Audio Indicator.
AccuSync-4		All **Accu Sync-3** features with the exception of the Heart Rate/R-R int. display.

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Provides convenience, safety and quality images diagnostically equivalent to sulfur colloid

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  less chance of product variations during preparation
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  simple procedure, just add technetium 99m and swirl
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Available in 5-vial or 30-vial kits. Call Du Pont NEN Products toll-free 800-225-1572 (in Mass. and International 617-482-9595).

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Abstract Form
SNM Winter Meeting

The abstract form for the Winter Meeting of The Society of Nuclear Medicine is located on page 31A.

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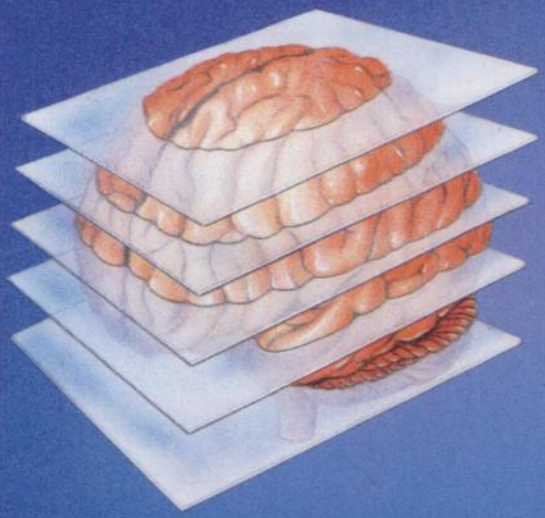

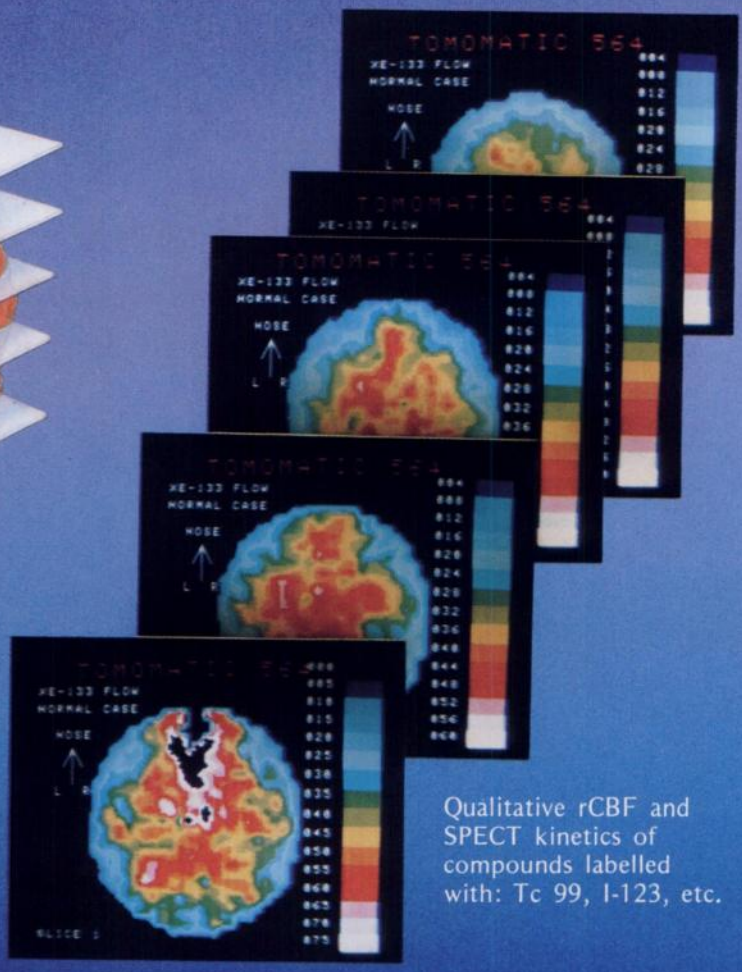

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Using:
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Qualitative rCBF and SPECT kinetics of compounds labelled with: Tc 99, I-123, etc.

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TOMOMATIC 564 uses state of the art in computer technology, with advanced and versatile user software.

TOMOMATIC 564 is the latest developed instrument in a series of 1, 3 and 5 slice tomographs.

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Circle Reader Service No. 17

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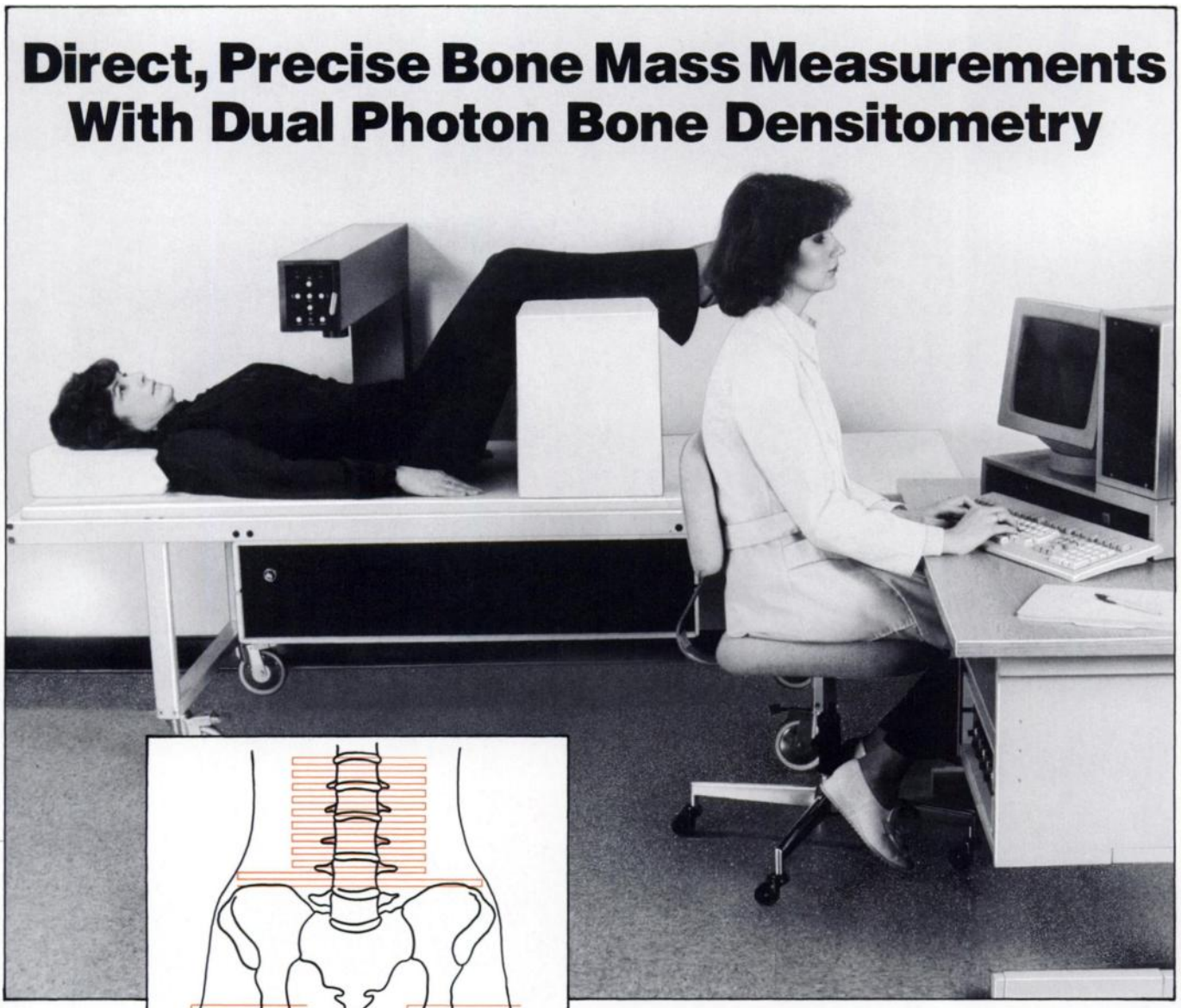
Direct, Precise Bone Mass Measurements With Dual Photon Bone Densitometry



For investigation of trabecular bone in the axial skeleton

The ND2100 Dual Photon Bone Densitometer is the ideal clinical instrument for precise, cost-effective measurement of bone mineral content for assessment and management of patients with osteoporosis and other metabolic bone diseases and disorders.

The dual photon method is especially useful in assessing longitudinal bone loss or gain without subjecting patients to excessive radiation levels. In addition, the ND2100 produces remarkably clear, high resolution images of the axial skeleton. Measurements are:

- Direct and Precise
- Highly Reproducible
- Cost Effective
- Easy and Convenient

The ND2100 System includes the scanner unit in which the radioactive substance is maintained, a translucent table, sodium iodide detectors, and computer for operational control, data processing, and file storage.

ND2100 features include:

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- High Resolution Video Display
- Clear, well defined graphics/printouts
- Large scanning area (50cm by 60cm)
- Scanning area can be repositioned without moving patient

For detailed information on the ND2100 Bone Density Scanner, contact:

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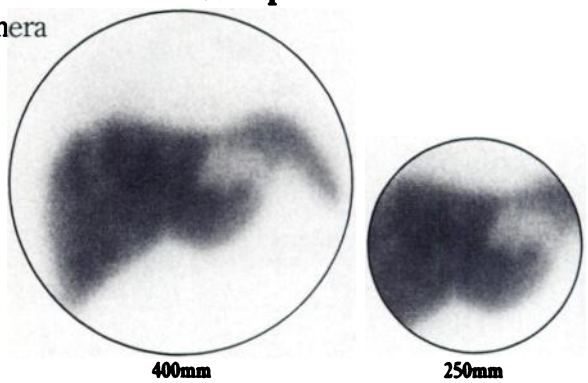

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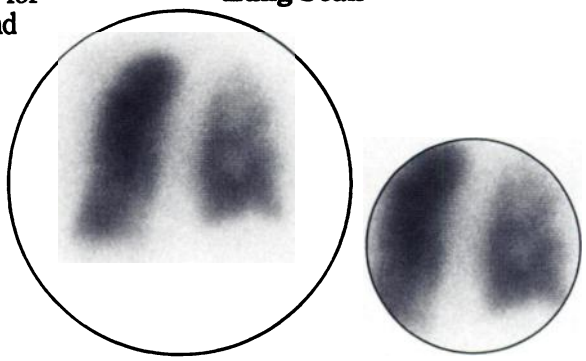

400mm

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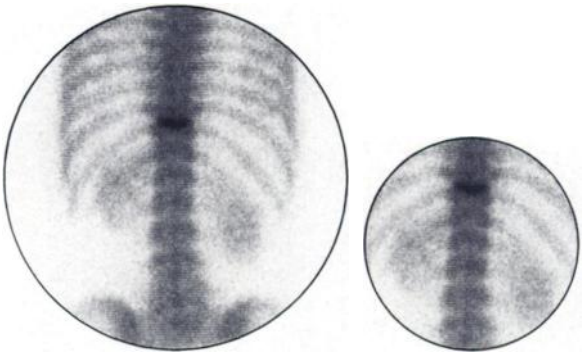

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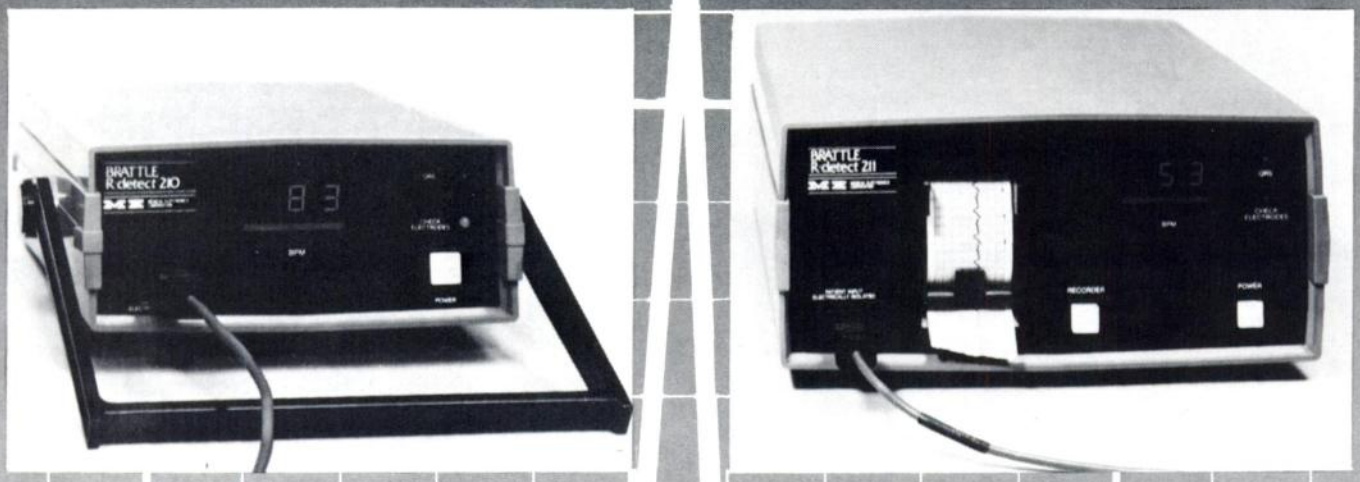

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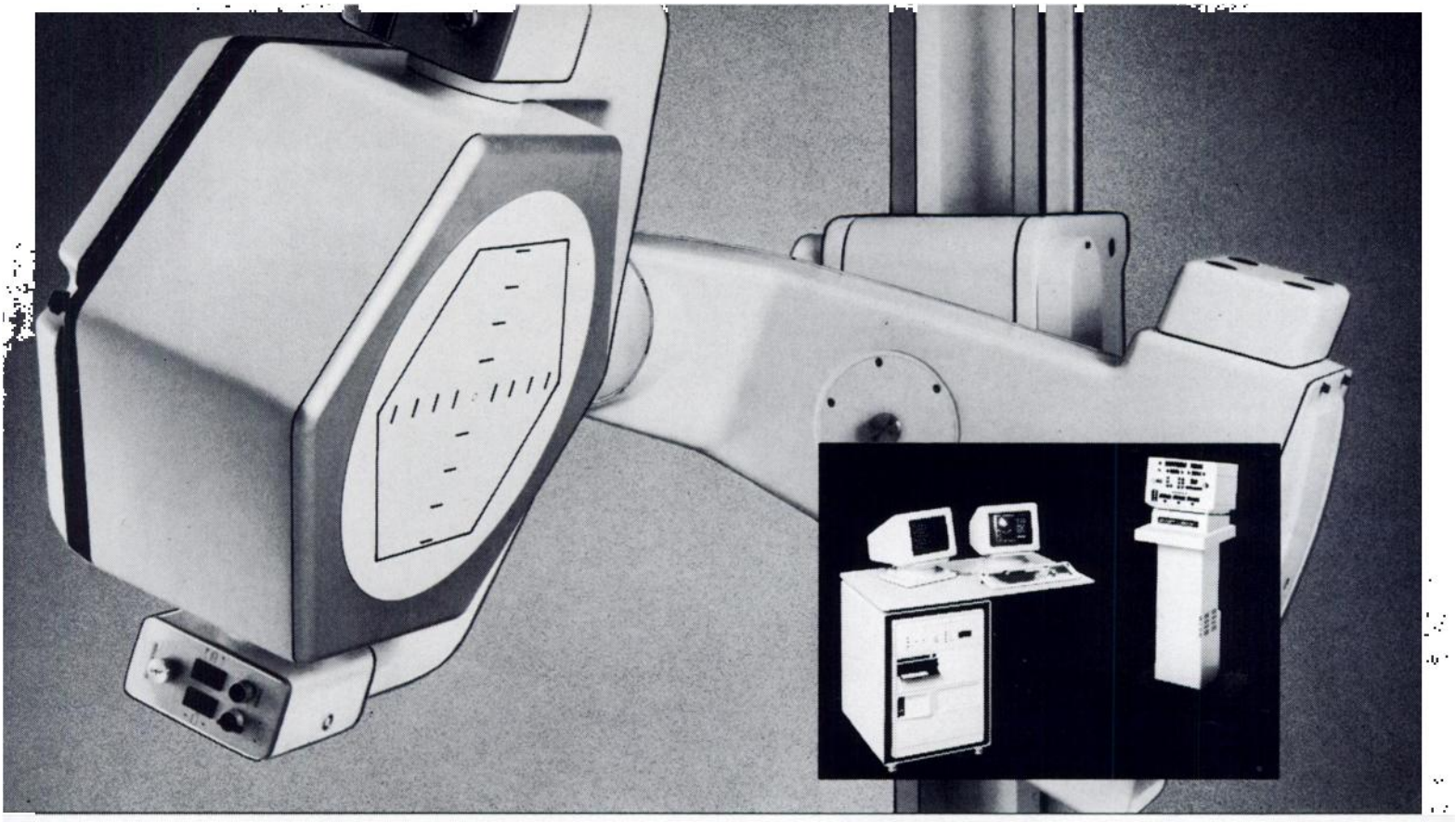

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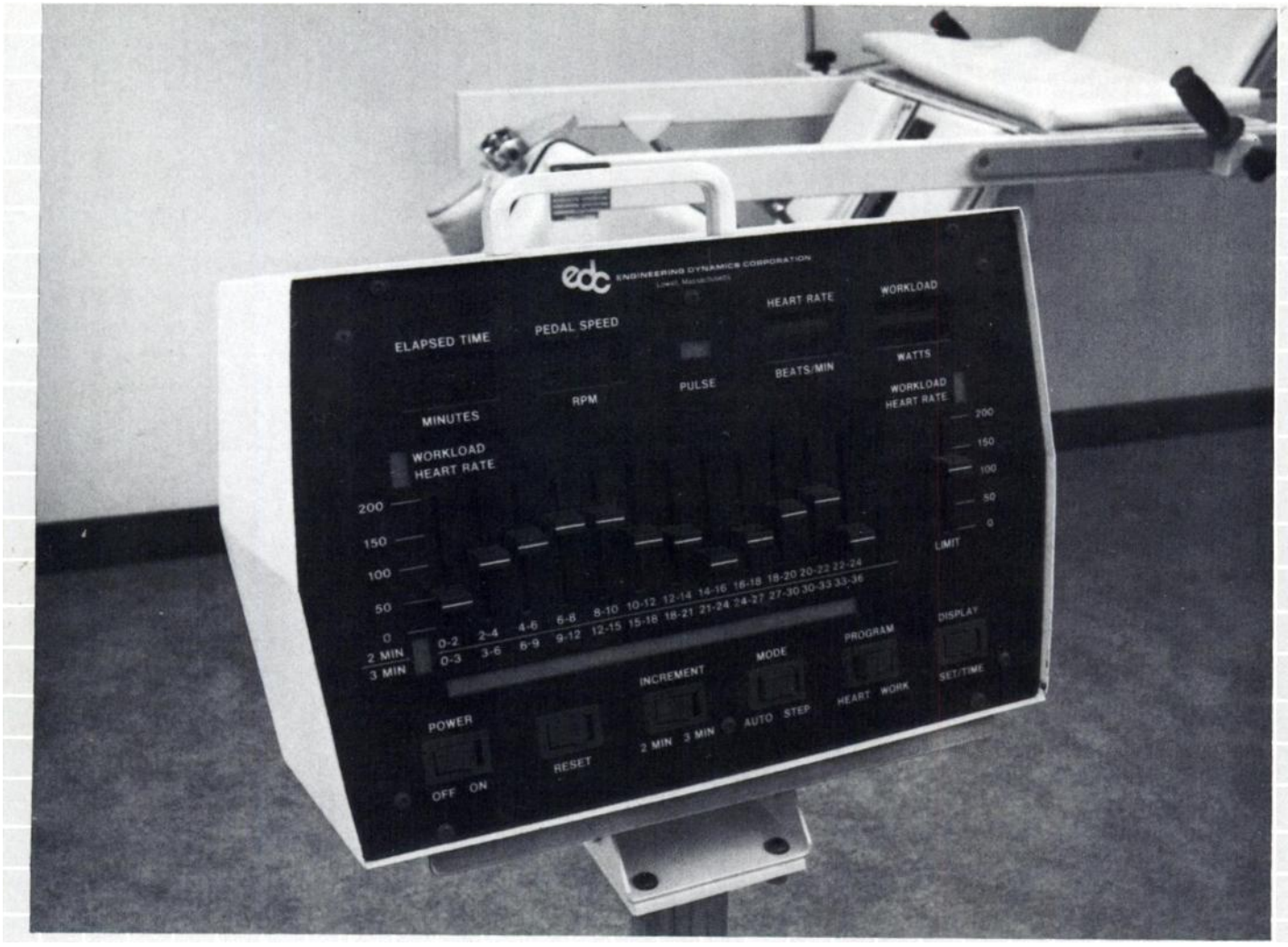

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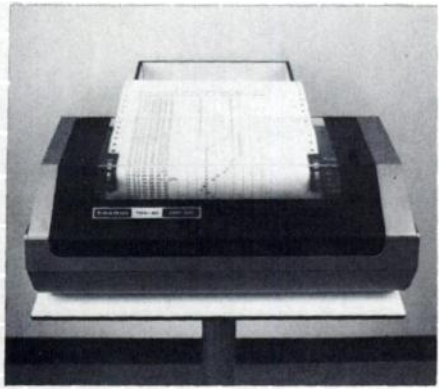

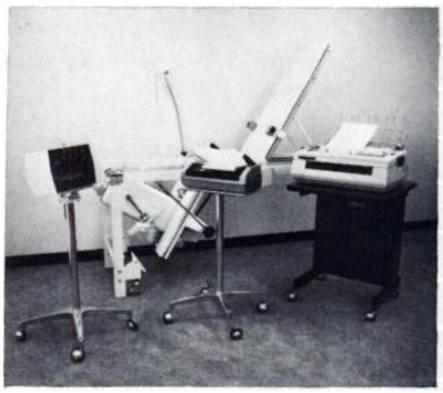

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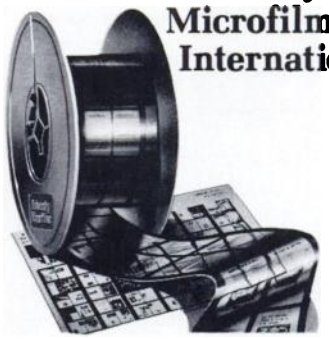

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Department of Radiology, George Washington University
Medical Center, 901 23rd St. NW, Washington, DC 20037
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PARTICIPATING ORGANIZATIONS

The Society of Nuclear Medicine-Europe
23rd Meeting

The European Nuclear Medicine Society
8th Meeting

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SCIENTIFIC PROGRAM: The clinical contribution of nuclear medicine to patient management and clinical strategy in relation to other imaging procedures will be emphasized together with the scientific contribution of nuclear medicine to the basic physiology and biochemistry of health and disease. There will be lectures from invited speakers, scientific and clinical papers, symposium, poster sessions, a technologist program, and pre-congress teaching courses.

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DATES: Saturday, August 31st, and Sunday, September 1st. (The Congress has applied for Category 1, AMA accreditation.) £25 before May 15; £35 after May 15.

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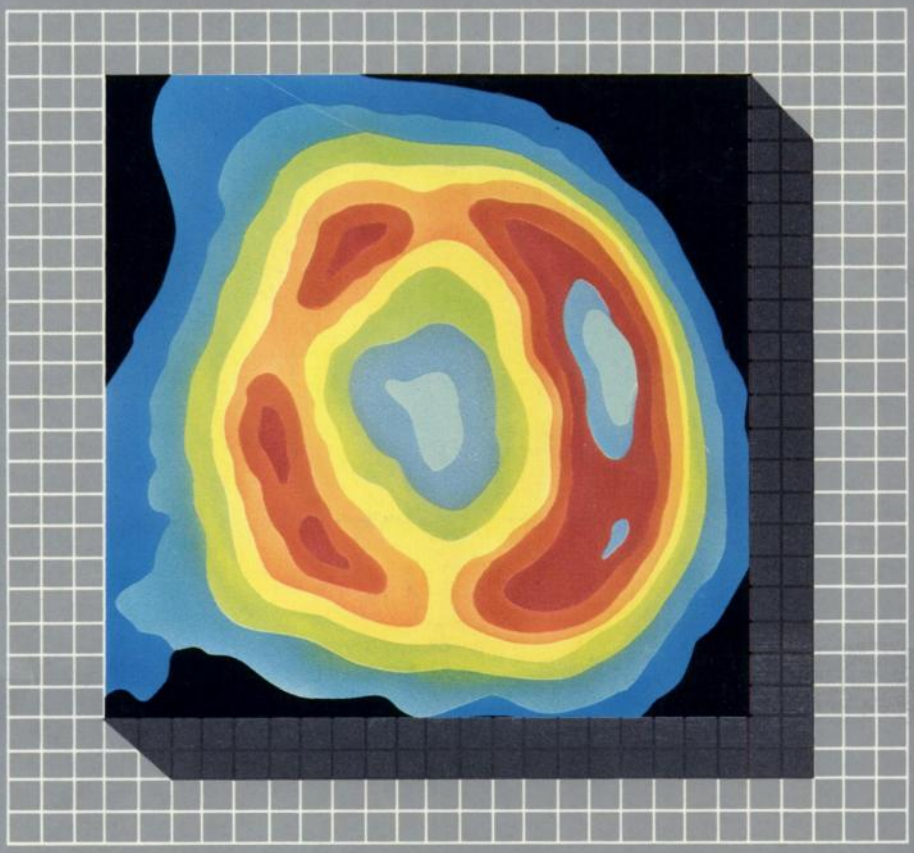

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- Significantly increased our production to meet your demand... *you get WHAT you want... WHEN you want it.*
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Take advantage of us. Let MPI be your prime supplier.

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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. Each unit dose contains 1 milliliter and each milliliter contains 2 millicuries of Thallous Chloride Tl 201 at calibration time. pH adjusted to 5.0–8.0 with hydrochloric acid and/or sodium hydroxide. Contains no bacteriostatic preservative. Thallium Tl 201 is cyclotron produced and is essentially carrier-free. Radionuclidic purity at calibration time is at least 98.0% with less than 1.0% Thallium Tl 200.1.0% Thallium 202 and 0.2% Lead Pb 203. The concentration of each radionuclidic contaminant changes with time.

INDICATION AND USAGE: Thallous Chloride Tl 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 a suitable radioactivity calibration system immediately prior to administration.

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

Thallous Chloride Tl 201 as well as other radioactive drugs must be handled with care, and appropriate safety measures should be used to minimize radiation exposure to clinical personnel. Also, care should be taken to minimize radiation exposure to the patient consistent with proper patient management.

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

Carcinogenesis, Mutagenesis, Impairment of Fertility

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

Animal reproduction studies have not been conducted with Thallous Chloride Tl 201. It is also not known whether Thallous Chloride Tl 201 can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Thallous Chloride Tl 201 should be given to a pregnant woman only if clearly needed.

Nursing Mothers

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when Thallous Chloride Tl 201 is administered to a nursing woman.

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

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