

The T-7 Value minimizes misleading thyroid results

Pregnancy, oral contraceptives, estrogens, etc., can produce misleading results by falsely listing euthyroids in either the hypothyroid or hyperthyroid range if only one test is used to determine thyroid function.

"No single laboratory test of thyroid function is diagnostically perfect for all patients."*

What's more, patients may knowingly or unknowingly give a false history. To prevent this, schedule both a T-3 test (Triosorb) and a T-4 test (Tetrasorb), which supplies the T-7 Value ($T-3 \times T-4$) — a highly reliable result:

- When both test values are decreased, the patient is usually hypothyroid.
- When both test values are increased, the patient is usually hyperthyroid.
- When both test values are normal, the patient is usually euthyroid.
- When a patient is on oral contraceptives or is pregnant, the test values move in opposite directions.

Millions of Triosorb tests have been performed over the past 7 years and today it is considered the standard of T-3 tests.

Tetrasorb is the first diagnostic kit offering a direct measurement of thyroid function by determining serum thyroxine.

Both Triosorb and Tetrasorb are *in vitro* tests providing accuracy, speed and convenience. They are available in disposable kits ready for use.

By multiplying the results of both tests, you arrive at the T-7 Value—a new level of confidence in thyroid diagnosis.

*Gold, A., Appl. Ther., 9:599, 1967.



ABBOTT LABORATORIES
North Chicago, Illinois 60064

**World's Leading Supplier of
Radio-Pharmaceuticals**

Vertretung für Europa: Labor-Service GmbH, Abt. Radiopharmazeutika, 6236 Eschborn/Ts, Germany, Postfach 1245

T-3 x T-4 = T-7 Value



**TRIOSORB[®]-131 or
TRIOSORB-125**

T-3 Diagnostic Kit

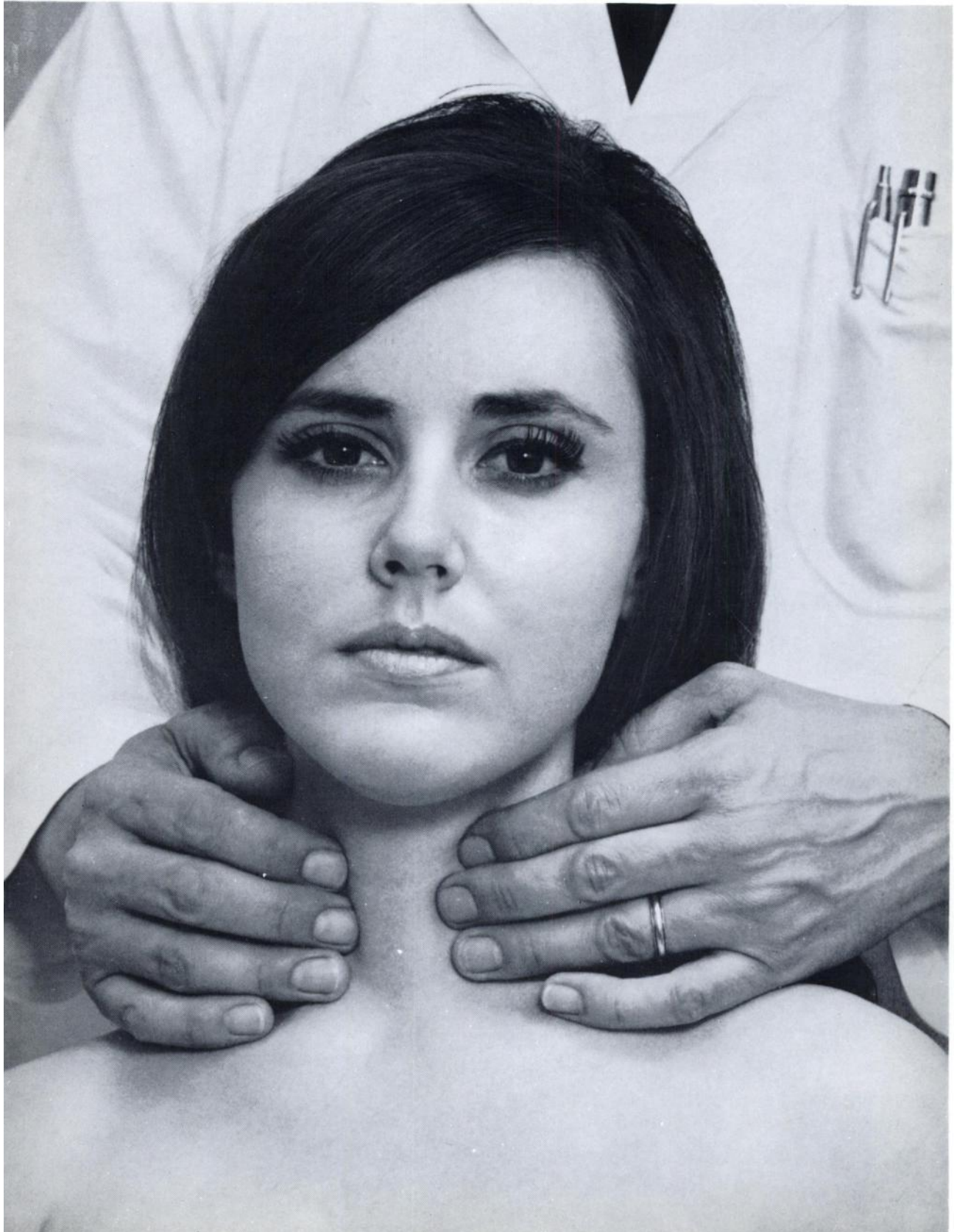


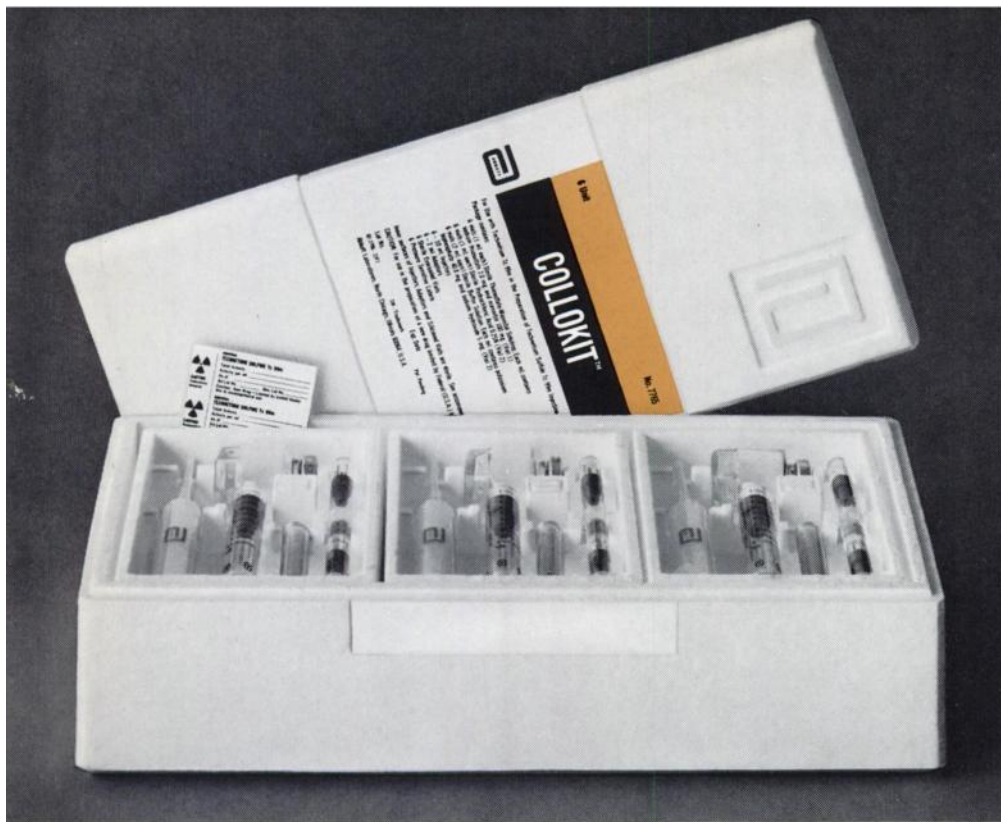
**TETRASORB[®]-
125**

T-4 Diagnostic Kit

001187

Thyroid dysfunction? Pregnant? On the “pill”?





NEW! This is the pair to see

Announcing COLLOKIT™

KIT FOR TECHNETIUM SULFIDE Tc 99m

Collokit is a "cold" kit that can be stored without refrigeration until you're ready to use it. Then, following directions, it takes just minutes to prepare a sterile, non-pyrogenic colloidal solution of Technetium Sulfide Tc 99m. Collokit offers many advantages:

- **Simplicity** (ease of handling)
- **Mannitol stabilizer** (patent pending)

- **Economy** (less cost than ready-made products)
- **Convenience** (individual units, each with all of the components for a day's use)

Collokit is specifically designed for use with Pertgen-99m. It is not recommended for systems with eluates containing oxidizing agents (such as sodium hypochlorite).

PERTGEN®-99m TECHNETIUM Tc 99M GENERATOR KIT

Fractional elutions — the exclusive Abbott Metering Unit permits fractional elutions of the Pertgen-99m Generator allowing the preparation of high assay material using Collokit.

Safety — the protection afforded by the unique Rayshield™ (shown underneath the Pertgen-99m Generator), means that Pertgen-99m can be used on the lab bench —there's no need to hide this system behind

the bricks!

Choice of calibration — to best fit your needs, you can now order Pertgen-99m shipped on the weekend calibrated for Wednesday or Pertgen-99m shipped on Thursday calibrated for Tuesday.

Collokit and the consistent and high yields of Pertgen-99 eluates provide an unbeatable combination!

TM—Trademark.



when you want to "see" the liver!

TECHNETIUM SULFIDE Tc 99m

Indications: For direct visualization of the liver and spleen.

Warnings: Radio-pharmaceutical agents should not be administered to pregnant or lactating women, or to persons less than 18 years old, unless the information to be gained outweighs the hazards. Radio-pharmaceuticals should be used only by physicians who are qualified by specific training approved by an individual agency or institution already licensed in the use of radio-isotopes.

Precautions: Care should be taken to ensure minimum radiation exposure to the patient as well as to all personnel. Although there have been no untoward reactions reported from the use of mannitol stabilized colloid, physicians administering this agent should be prepared to institute emergency resuscitation in the event of an anaphylactoid reaction. The absence of a

lesion in the scan does not necessarily rule out its existence.

COLLOKIT

(KIT FOR TECHNETIUM SULFIDE Tc 99m)

How Supplied: Package of 6 units, each containing:

Vial 1: Sterile Thiosulfate—Mannitol Solution, 1 ml. Each ml. contains Mannitol 100 mg. and sodium thiosulfate 2.0 mg.

Vial 2: Sterile Hydrochloric Acid 0.25 N, 1 ml.

Vial 3: Sterile Buffer Solution, 2 ml. Each ml. contains potassium biphosphate 40.8 mg., sodium hydroxide 5 mg., and disodium edetate 1 mg. And accessory equipment.

PERTGEN-99m

(TECHNETIUM Tc 99m GENERATOR KIT)

How Supplied: 50, 100, or 200 millicurie generators, and accessory equipment.



007221

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North Chicago, Illinois 60064

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CHARCOAT T-3. No fuss, no muss, no multiple pipetting or rinsing.

You don't even have to throw in a sponge. ☐ What's more, **CHARCOAT T-3** tests take only thirty minutes — start to finish — without complicated setups. You do everything in one little two-part vial. ☐ Merely pipette 0.5 ml of patient serum into each test vial, invert, incubate, centrifuge, and count the supernatant. ☐ But don't take our word for how simple and economical **CHARCOAT T-3** kits are. Put one to



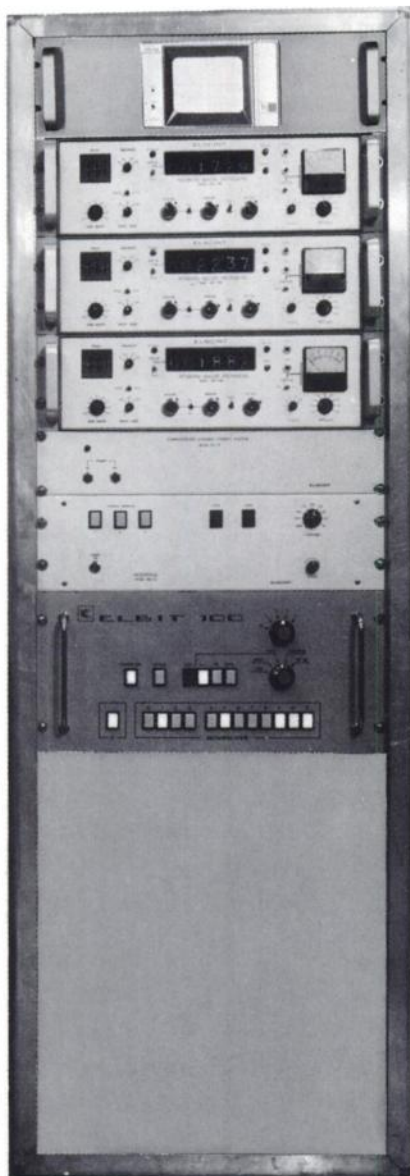
the test. A standard kit (13 test vials) is only \$20, and just a phone call away. Moreover, the extra long shelf-life of the **CHARCOAT T-3** test kit makes quantity discount purchases practical. ☐ Ask about our Automatic T-3 Computer. Easy to use—no calculations. \$1680 sale or lease.



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Nuclear Corp.**

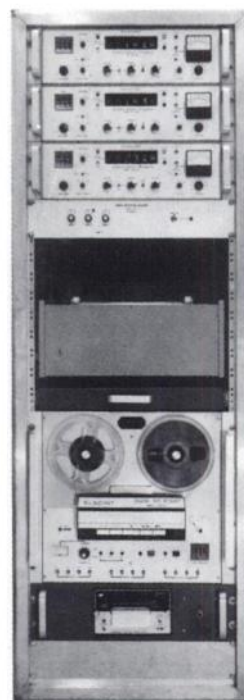
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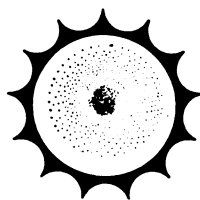


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NOT FOR US.

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you like to see it grow. That's why
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ter serve the population explosion.



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Box 10172 • Lambert Field
St. Louis, Missouri 63145**

Radioimmunoassay Kits from Schwarz/Mann.



A major factor in radiochemicals makes a major commitment to a major new field.

Renin Activity

Developed by Schwarz/Mann, this is the first such commercially available kit for the determination of renin activity by the measurement of generated Angiotensin I. Highly sensitive, highly specific, rapid method for serum samples. Contains 4 vials Angiotensin I antiserum (each vial sufficient for 100 tubes), 1 vial ^{125}I Angiotensin I, and 1 vial Angiotensin I standard solution. Kit sufficient for 400 tubes.

Insulin

Permits measurement of insulin concentration in small volumes of blood plasma, urine, or tissue homogenates. Contains 1 vial ^{125}I -labeled pig insulin, 1 vial human insulin standard solution, and five vials of Insulin Binding Reagent (each vial sufficient for 80 individual tubes). Kit sufficient for 400 tubes. (Note: Developed by the CEA-CEN-SORIN Association in collaboration with the Laboratory of Clinical Physiology of C.N.R., Pisa, Italy.)

Human Growth Hormone

Permits measurement of low concentrations of Human Growth Hormone in small volumes of serum or plasma. Contains 1 vial ^{125}I -labeled HGH solution, 1 vial HGH

standard solution, two vials anti-HGH antiserum (produced in guinea pigs), and two vials of precipitating antiserum (produced in rabbits). One vial of each of the two antibodies is sufficient for 80 tubes. Each kit is sufficient for 160 tubes. (Note: Developed by the CEA-CEN-SORIN Association in collaboration with the Laboratory of Clinical Physiology of C.N.R., Pisa, Italy.)

Digoxin

For monitoring digoxin levels in cardiac patients. Being developed by Schwarz/Mann—to be introduced shortly.

Subsequent Introductions

Schwarz/Mann is actively involved in the development of additional radioimmunoassay kits. To be kept informed of the newest introductions, please check the appropriate box on the coupon below.

Note: An AEC or participating state radioactive license is required to order these kits. Please include appropriate license number on coupon. Thank you.

S Schwarz/Mann

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Division of Becton, Dickinson and Company 

Order form for kits and/or information.

Kit	Catalog Number	Price				Quantity Desired	Check Here For Information
Renin Activity	0750-03	\$75 ea.	\$70 ea. (2-5)	\$65 ea. (6-11)	\$60 ea. (12+)		<input type="checkbox"/>
Insulin	0750-02	\$55 ea.	\$50 ea. (2-4)	\$45 ea. (5-9)	\$40 ea. (10+)		<input type="checkbox"/>
HGH	0750-01	\$60 ea.	\$55 ea. (2-4)	\$50 ea. (5-9)	\$45 ea. (10+)		<input type="checkbox"/>
Digoxin	0750-04	—	—	—	—		<input type="checkbox"/>
Note: To be informed of future radioimmunoassay kit introductions, please check here. <input type="checkbox"/>							

Date _____ Order Number _____ Radioactive License Number _____

Name _____ Title _____ Department _____

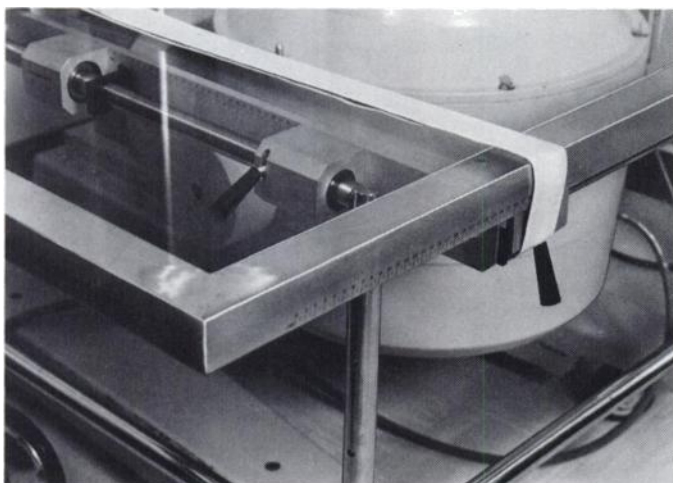
Organization _____

Address _____ Phone Number _____

City _____ State _____ Zip _____

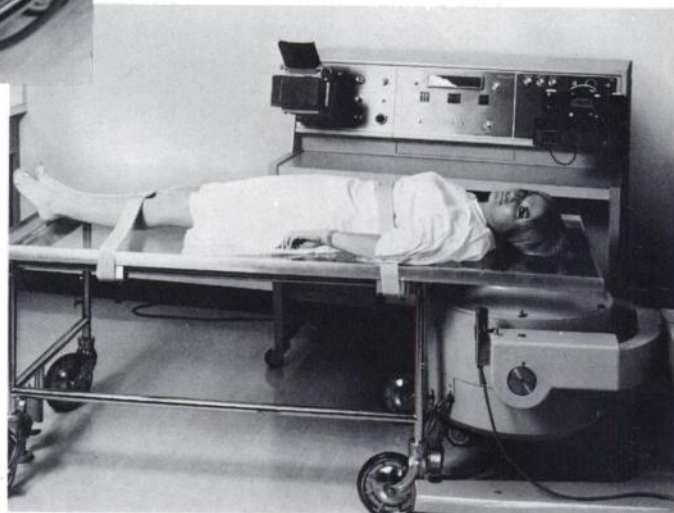
Finally.. THE PGL MODEL 500

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Graduated calibration scale and positive cam locks assures reproducible positioning.

The "floating" top overhangs to allow supine posterior brain views. Ten inches of travel in both longitudinal and lateral planes.



No crossmembers or support bars to interfere with placement of probes, scanner heads, or camera detectors.



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Pulmonary problem? Answer: Macroscan-131

- **Uniformity of particle size distribution**
- **Minimal free iodide**
- **Superior manufacturing technique** (supernatant is removed in the manufacturing process)
- **Safety** (no recorded reactions to date in thousands of scans)
- **Cost** (lowest of the 3 leading products)

Macroscan-131 is aseptically prepared and non-pyrogenic. It is ready to use and should not be heated prior to use.

INDICATIONS: For scintillation scanning of the lungs to evaluate total, unilateral, and regional arterial perfusion of the lungs.

WARNINGS: Radio-pharmaceutical agents should not be administered to pregnant or lactating women, or to persons less than 18 years old, unless the information to be gained outweighs the hazards. There is a theoretical hazard in acute cor pulmonale, because of the temporary small additional mechanical impediment to pulmonary blood flow. The possibility of an immunological response to albumin should be kept in mind when serial scans are performed. If blood is withdrawn into a syringe containing the drug, the injection should be made without delay to avoid possible clot formation.

PRECAUTIONS, ADVERSE REACTIONS: Care should be taken to administer the minimum dose consistent with patient safety and validity of data. The thyroid gland should be protected by prophylactic administration of concentrated iodide solution. Urticaria and acute cor pulmonale, possibly related to the drug, have occurred.



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P.M.—If it's a pulmonary problem, think Macroscan-131.

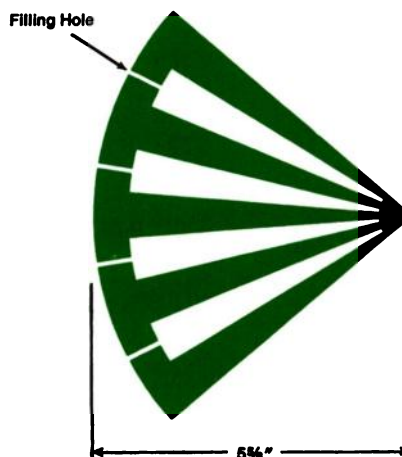
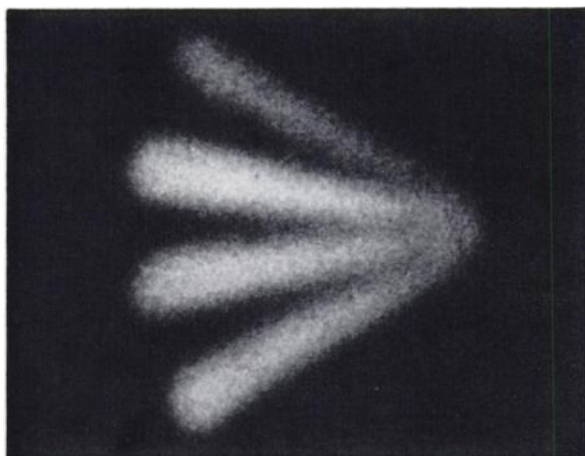
MACROSCAN®-131 AGGREGATED RADIO-IODINATED (I^{131}) ALBUMIN (HUMAN)

ABBOTT LABORATORIES North Chicago, Illinois 60064 World's Leading Supplier of Radio-Pharmaceuticals
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The Picker Dynacamera 2:

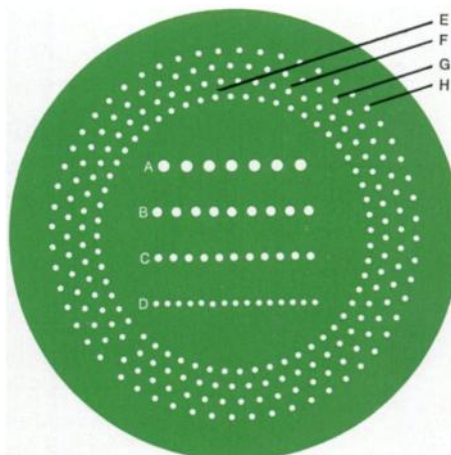
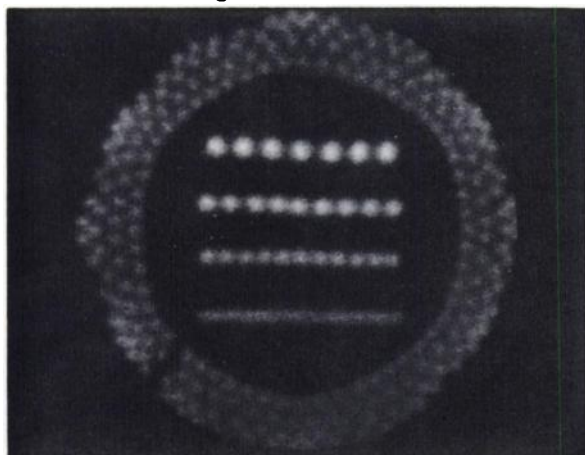
The scintillation camera with both high resolution and a large *undistorted* field of view:

Resolution



Phantom description: 3/8" thick lucite with four 1/8" thick radiating voids filled with activity.

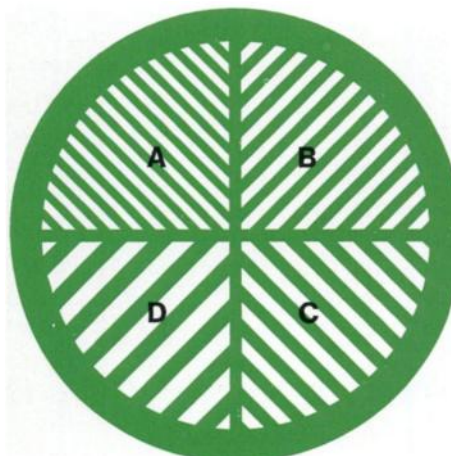
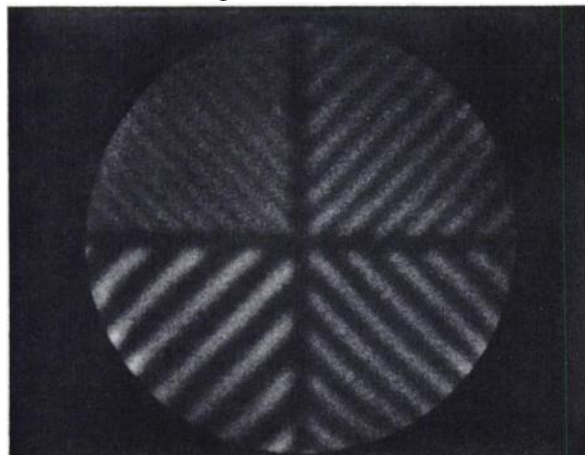
Resolution and large undistorted field of view



Phantom description: 1/8" thick by 15" dia. lead circle mounted between two circular pieces of 1/8" thick lucite.

A. 3/8" dia. 3/8" space
B. 5/16" dia., 5/16" space
C. 1/4" dia., 1/4" space
D. 3/16" dia., 3/16" space
E. 3/16" dia. holes with centers on 9" dia. circle.
F. 3/16" dia. holes with centers on 10" dia. circle.
G. 3/16" dia. holes with centers on 11" dia. circle.
H. 3/16" dia. holes with centers on 12" dia. circle.

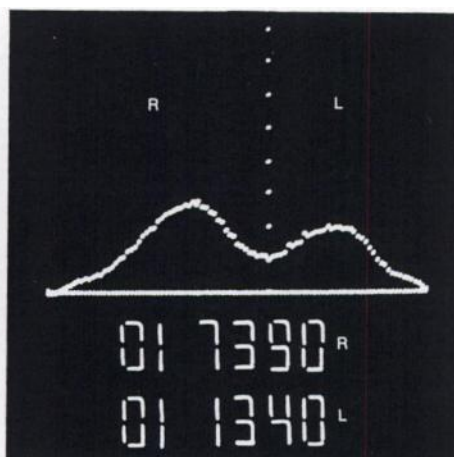
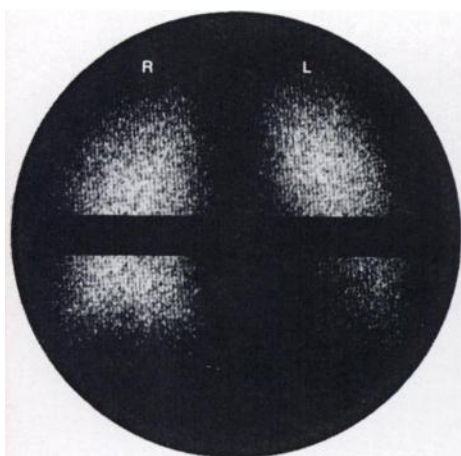
Resolution and large undistorted field of view



Phantom description: 1/8" thick lead bars mounted between two circular pieces of 1/8" thick lucite. A 14" outside diameter, 1" wide, lead ring surrounds the bars.

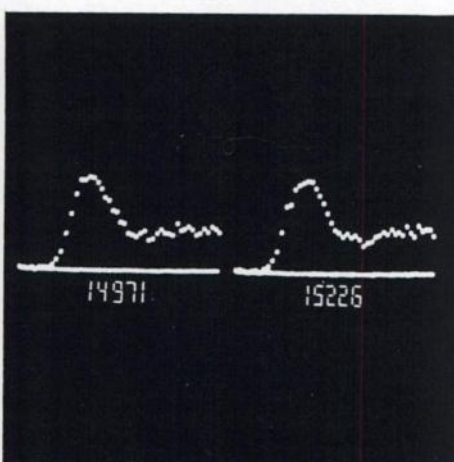
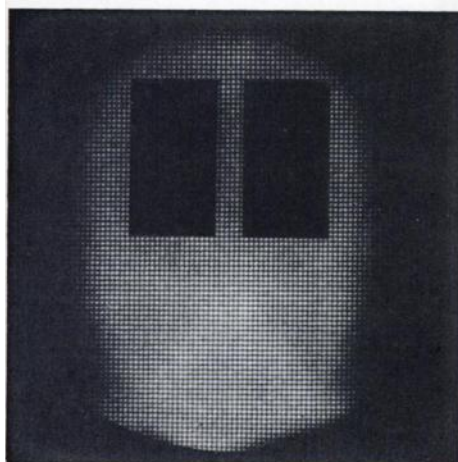
A. 1/4" bars, 1/4" spaces
B. 5/16" bars, 5/16" spaces
C. 3/8" bars, 3/8" spaces
D. 1/2" bars, 1/2" spaces

The scintillation camera with more clinically useful and proven capabilities:



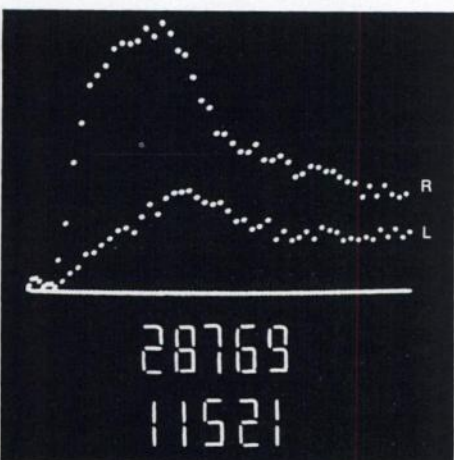
Quantification of static studies (a built-in capability)

Dynacamera 2 is the scintillation camera that provides both Scintigrams and the total count in an organ or any portion of it.



Quantitative regions of interest (a built-in capability)

Dynacamera 2 permits the selection of two regions of interest and simultaneously displays both count rate vs. time and total integrated counts in both regions.



Quantitative dynamic studies (a built-in capability)

Dynacamera 2 performs quantitative dynamic function studies in selected regions without the need for modifications, accessory systems, or extra cost and produces digital histograms simultaneously for quantification of each discrete phase.

Please call your local Picker technical specialist for information about other Dynacamera 2 features or to learn about Dynacamera 3, the scintillation camera with a built-in image enhancement system. Or write Picker Medical Products Division, Dept. N, 595 Miner Road, Cleveland, Ohio 44143.

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That's a wooden Indian all right. But he unloaded Manhattan before jacked-up subway fares and waterless meals. So he isn't taking any wooden nickels.

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The NUCLE EYE™ Monitor.

This new system can count low-energy radiations *in vivo* you couldn't count before—at remarkably low background levels. An advanced solid-state "Proportional Counter" makes it possible.

You can now think of using ^{125}I for organ scanning, for example. For the first time, use low-energy emitting isotopes like ^{35}S , ^{55}Fe and ^{45}Ca in *in vivo* experimental work. X-ray fluorescence scanning and analysis. Tumor detection and measurement of tumor dynamics. Detection of ^{55}Fe x-rays in blood measurements and ^{51}Cr x-rays in spleen scanning. Carbon-14 research.

A patient's body heat creates no problem. The NUCLE EYE Monitor maintains its unique low-background counting capability from room temperature to 85°C . Without cooling.



What's more, the eight-pound system is fully portable. Take it from laboratory to laboratory. Even to patient bedside. Nickel-cadmium batteries give five hours of continuous operation before recharging.

162-53

Want more information about this new system? Write Space Technology Products, P.O. Box 8439, Philadelphia, Pa. 19101. Or phone (215) 962-8300.

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Only Two Dosecalibrators assay activity and compute dose. **RADX** makes both!



Both models of the Radx isotope dosecalibrator, the Mark IV and the Mark V, offer you instantaneous pushbutton computation of the total vial assay and volume to be injected for a prescribed millicurie dose. That's just one of the many unique features found in Radx instruments. Consider three more:

1. Instant adaptation to new radionuclides (your hedge against obsolescence)
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3. Your choice of analog or digital read-out (at overall costs 15% to 42% lower than competitive units — instruments which cannot offer all of the above features)

There's still more. Check with us. We will send you a brochure and, if you like, make arrangements for a demonstration in your laboratory.

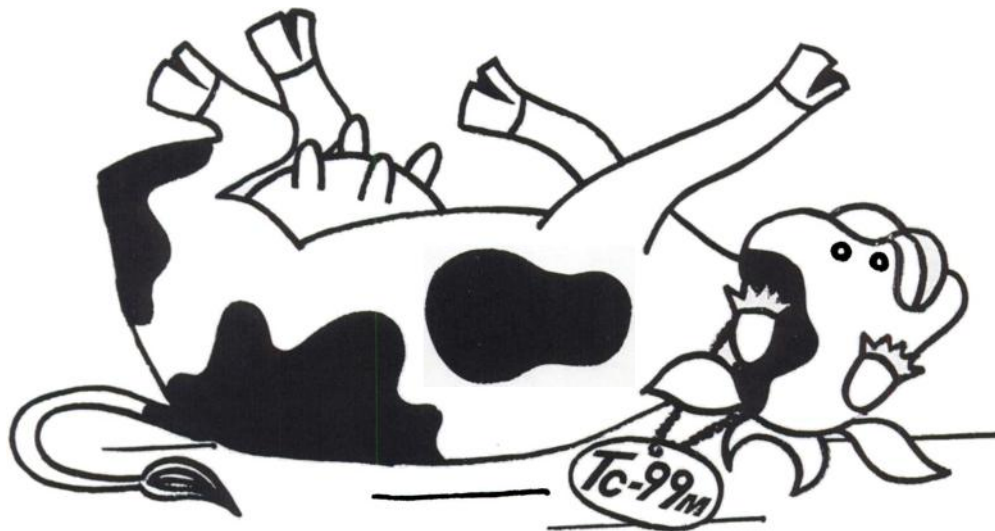
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THE COW IS DEAD...



...MEKTec-99™

an Automatic Liquid-Liquid Extraction System for the Production of High Quality Technetium-99m, is Now Available to Those Hospital Isotope Units Now Using a Molybdenum Column Generator!

What is an automatic MEK or Liquid-Liquid Extraction System? Simply this!

MEKTec-99 automatically measures and mixes Methyl Ethyl Ketone (MEK) in a shielded container with an aqueous solution containing Mo-99/Tc-99m. Phase separation is allowed to occur. The ketone layer containing Tc-99m is transferred automatically through an alumina adsorbent column and a sterilizing membrane filter to a sterile, pyrogen-free vial. The MEK is then automatically evaporated by MEKTec-99.

The sterile, pyrogen-free, carrier free Tc-99m is now ready for dilution with any aqueous media such as sodium chloride injection, to any desired volume, and for quick and easy processing into chemical

compounds such as technetium sulfur colloid and albumin.

The advantages of a MEK Extraction System have been known for some time. Indeed, several commercial suppliers of "instant technetium" and several hospital units have been using this method, but on a time consuming manual basis.

In terms of QUALITY, highlighted by the far lower molybdenum and alumina levels in the product, COST, indicated by the weekly savings, and CONVENIENCE of a completely automated extraction system, the MEKTec-99 Automatic Extraction System is far superior to the now outmoded generator (cow).

**CALIFORNIA RADIOCHEMICALS, INC.
ANNOUNCES:**

MEKTec-99™

A Completely Automated Liquid-Liquid Extraction System for the Production of Tc-99m. "All Molybdenum Column Generators Are Now Obsolete!"

ELIMINATES . . .
moly breakthrough problems!

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consistent, high technetium yields!

CONCENTRATES . . .
technetium for any desired volume!

REDUCES . . .
weekly cost below all Tc-99m generators!



<u>Mo-99 at Delivery</u>	<u>Tc-99m Yield (approximate)</u>	<u>*Cost/Week</u>
200 mCi	160 mCi	\$120
400 mCi	320 mCi	155
600 mCi	480 mCi	205

Greater quantities available upon request.

* Cost is based upon a one year service agreement, cancellable within the first 30 days, and includes sterile vials, filter cartridges, weekly shipments of Mo-99 and MEK, and use of a MEKTec-99 Automatic Extraction System.

Mo-99 is delivered Tuesday mornings throughout the U.S. with calibration for 12 Noon, Pacific Time. Weekly delivery and an initial nominal freight charge are extra.

OPERATING PROCEDURE

1. Each week insert a fresh filter cartridge into the machine. Insert the transfer needle into the new shipment of Mo-99. The MEKTec-99 Extraction System will automatically transfer the Mo to the mixing reservoir which is shielded by 3½" of lead.
2. Initially set the MEKTec-99 clock to the time and to the days of the week for which the product is desired.

3. Set the MEKTec-99 Extractor to AUTO. Insert a sterile collecting vial and replenish the MEK supply. The product will automatically be delivered dry, within the sterile vial, at the time and on the days specified. The product is now ready for dilution as may be required.
4. For additional Tc-99m requirements set the control key to MANUAL and immediately initiate an extraction with a yield of approximately 70%.

To institute service or for additional details about the MEKTec-99 Automatic Liquid-Liquid Extraction System, contact your nearest sales agent office!



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Behold the "mini-scan!" Makes possible whole body scans recorded 5-to-1, all on single, comprehensive, 14" x 17" sheets of film with no loss in diagnostic quality or detail, and a big gain in efficiency.

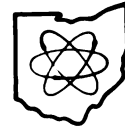
Ohio Nuclear series 84 radioisotope scanners equipped with this remarkable option, not only provide basic 1:1 scale recordings, but 2:1 and 5:1 minified recordings. This avoids serial scan examination and consolidates diagnosis in a compact, more perceptible and uniform visual field.

5:1 rectilinear field reduction capability is equivalent to increasing count rate by a factor of 25, which in turn, affords the possibility for corresponding increases in scan speed per unit area of examination.

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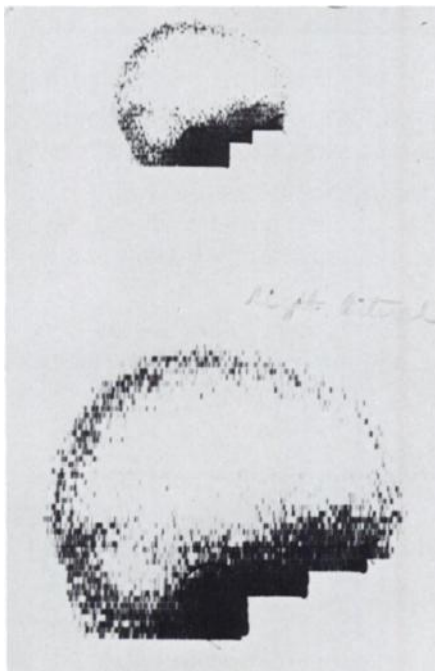
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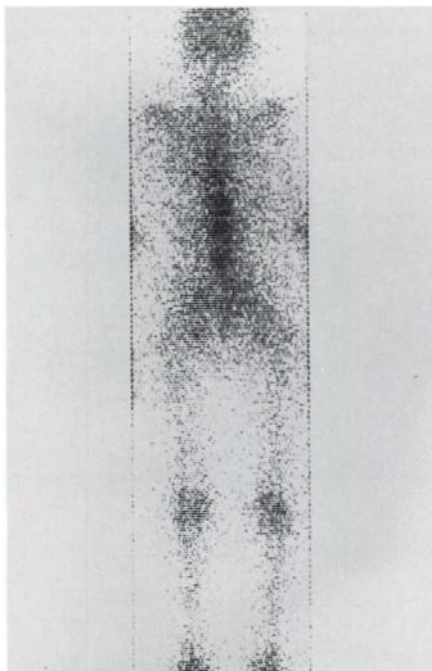
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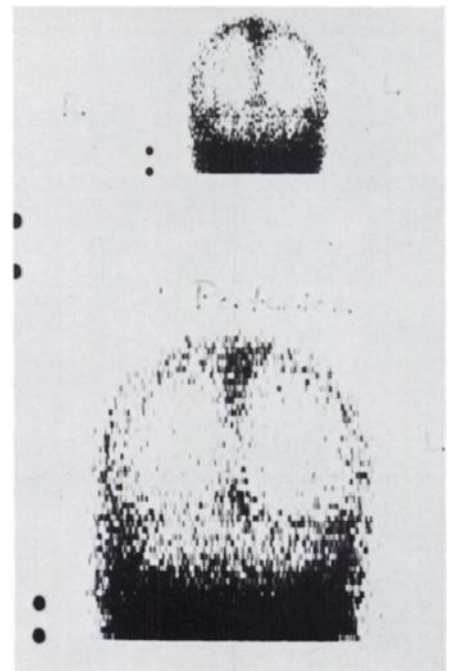
scan minification



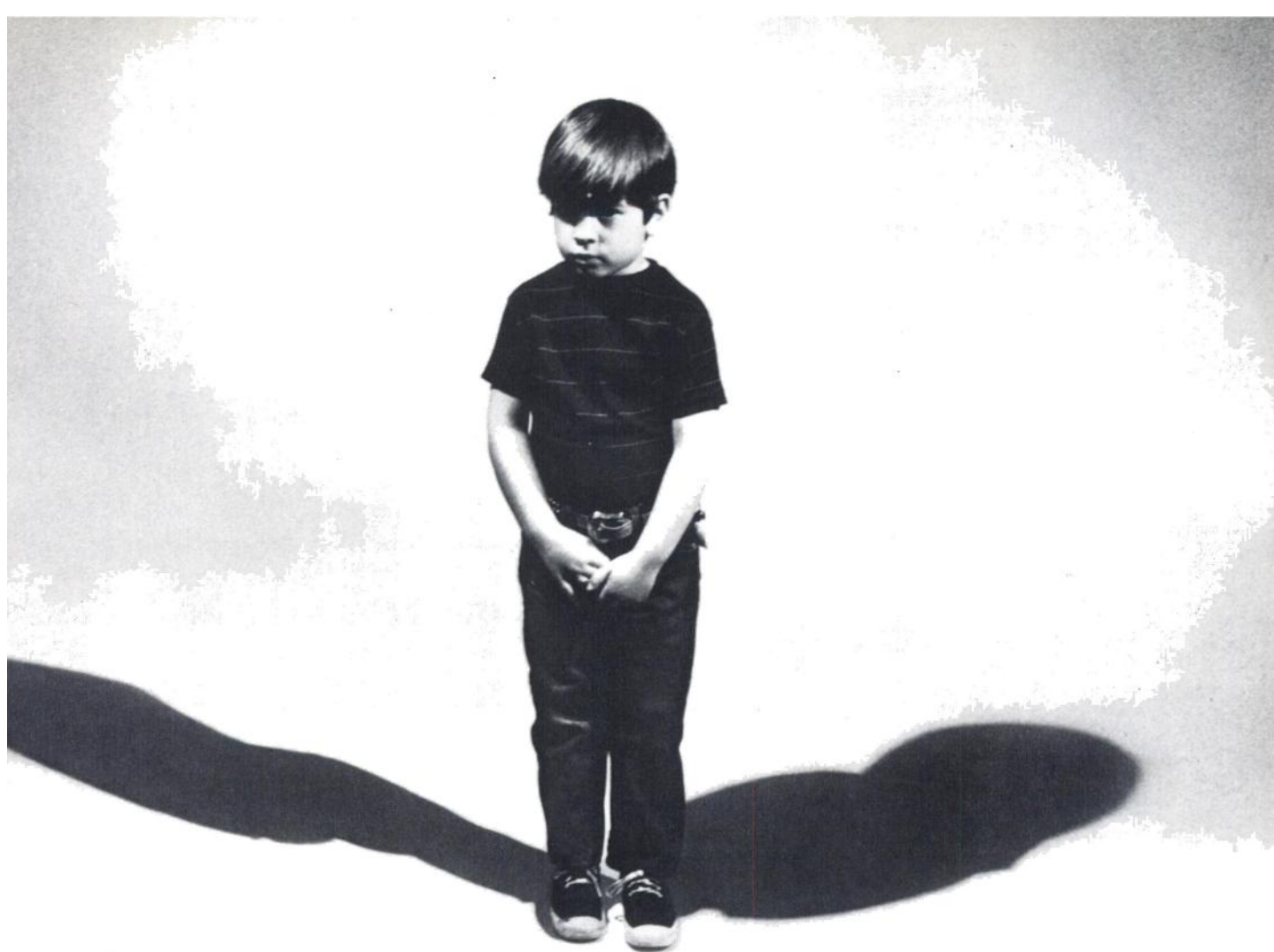
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RADIOIMMUNOASSAY— the long and short of it

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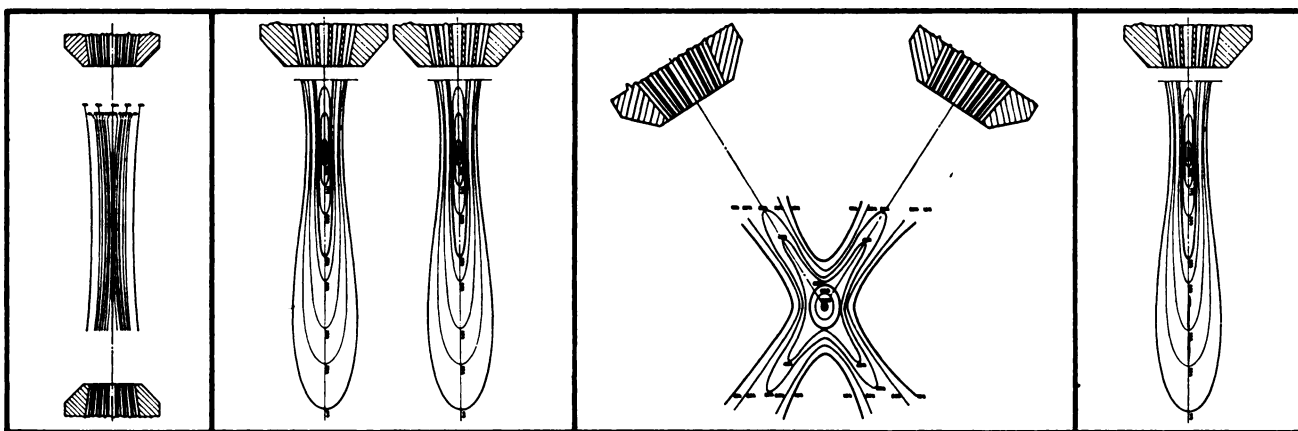
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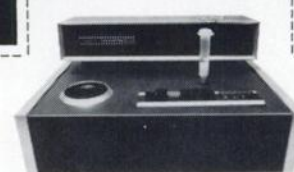


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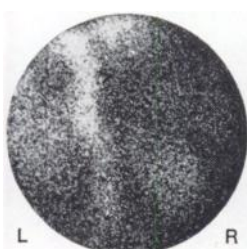
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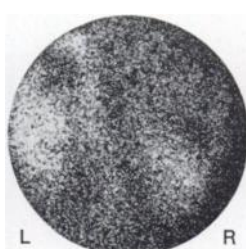
**^{197}Hg SCINTIPHOTO.
POSTERIOR VIEW.**



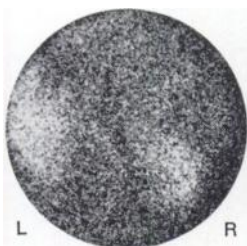
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POSTERIOR VIEW.**



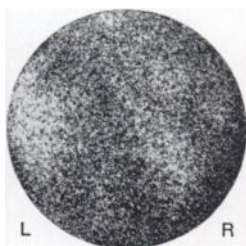
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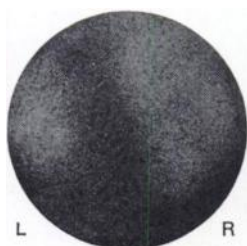
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DATA ACCUMULATION. The ^{197}Hg chloromerodrin scintiphoto represents 50,000 counts in a 4-minute period. The serial scintiphotos of ^{99m}Tc in renal transit are taken at selected intervals. This is followed by a static scintiphoto accumulating 300,000 counts.

Alternative dynamic methods of data accumulation could have included: (1) filming of the live-time "fluoroscopic" display on a persistence scope with a Super-8 movie camera, (2) operation of the Pho/Gamma detector in the dual-output mode, with recording of data from each kidney on a dual-channel ratemeter/dual-pen chart recorder, and (3) data recording in digital form on either the Nuclear-Chicago

Data-Store/Playback Accessory or the CDS-4096 Clinical Data System. These last two system accessories produce additional qualitative and quantitative data by virtue of their ability to store information for subsequent replaying, processing, and manipulation.

CASE HISTORY. The renal study illustrated on the opposite page is that of a patient with the following history: Female, 58 years old. Dull right-flank pain radiating to right groin of about one-week's duration. No associated hematuria or dysuria.

EVALUATION. The ^{197}Hg chloromerodrin scintiphoto shows very poor activity in the upper portion of the right kidney. The serial scintiphotos demonstrate gradual filling-in of the upper pole of the right kidney.

CONCLUSIONS. The dynamic Pho/Gamma renal study strongly suggests the possibility of a vascular neoplasm in the right kidney.

Confirmation of such pathology was obtained by a selective renal angiogram. As illustrated, a massive tumor is present in the right renal area.

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Nuclear Reviews

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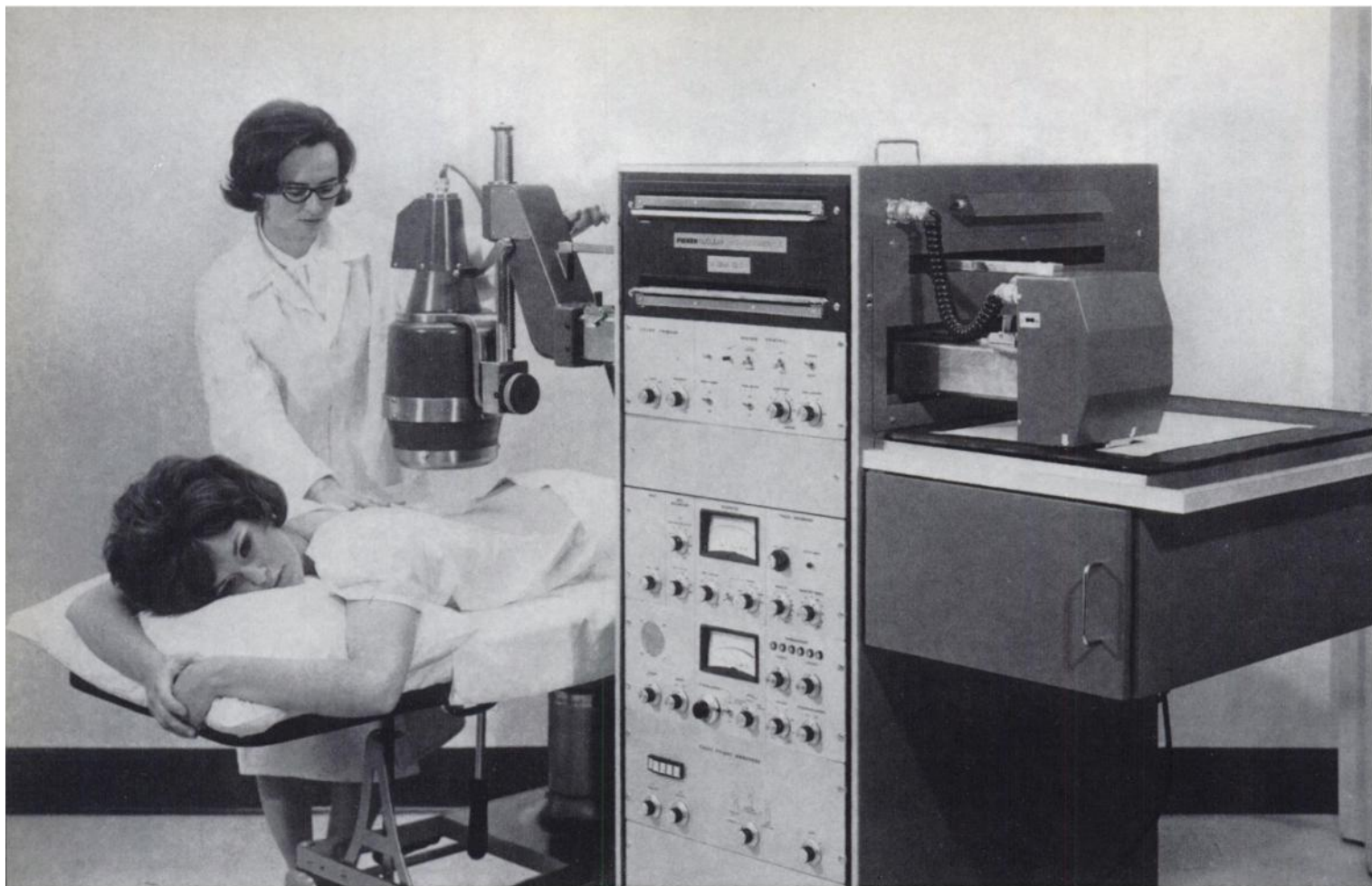


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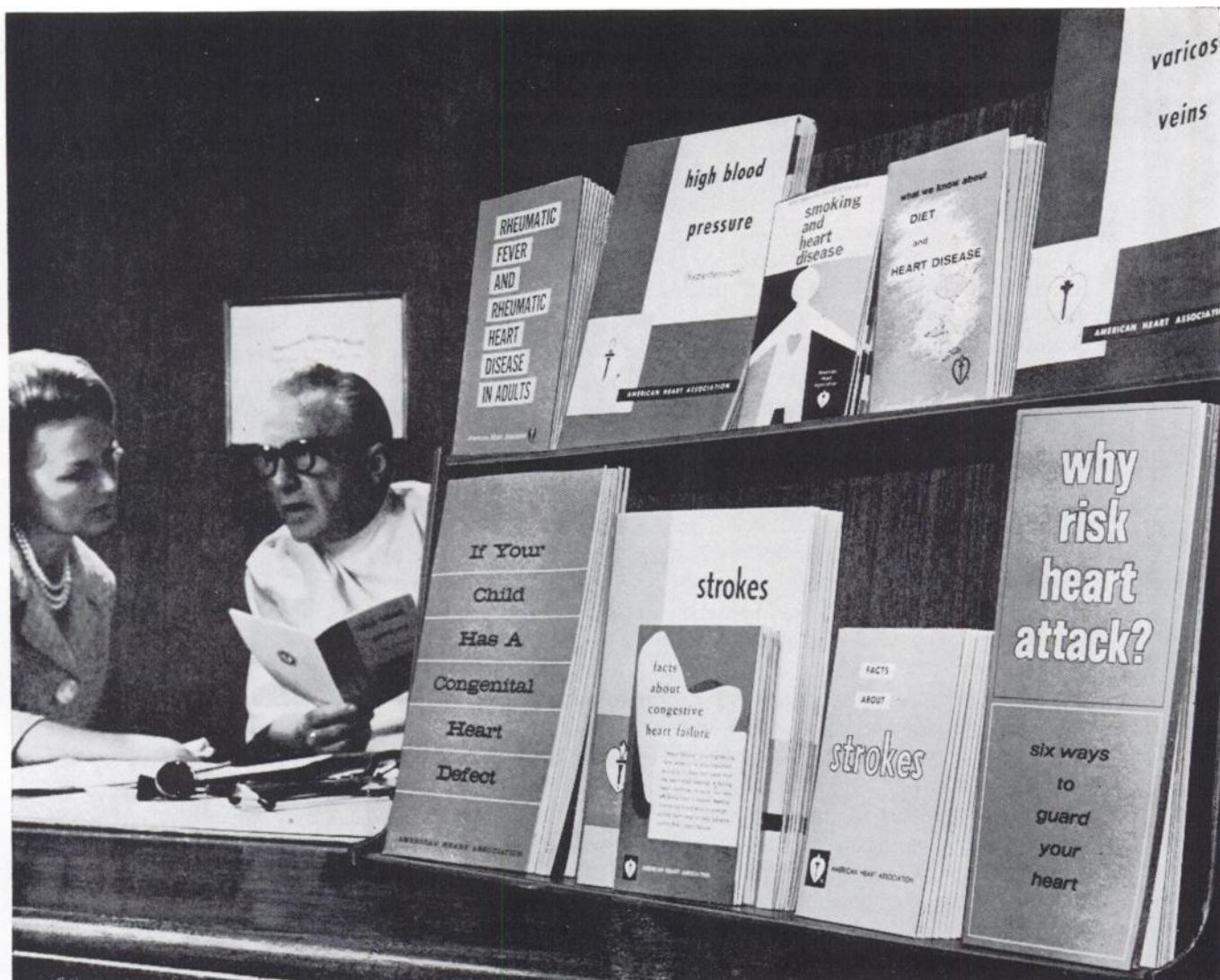
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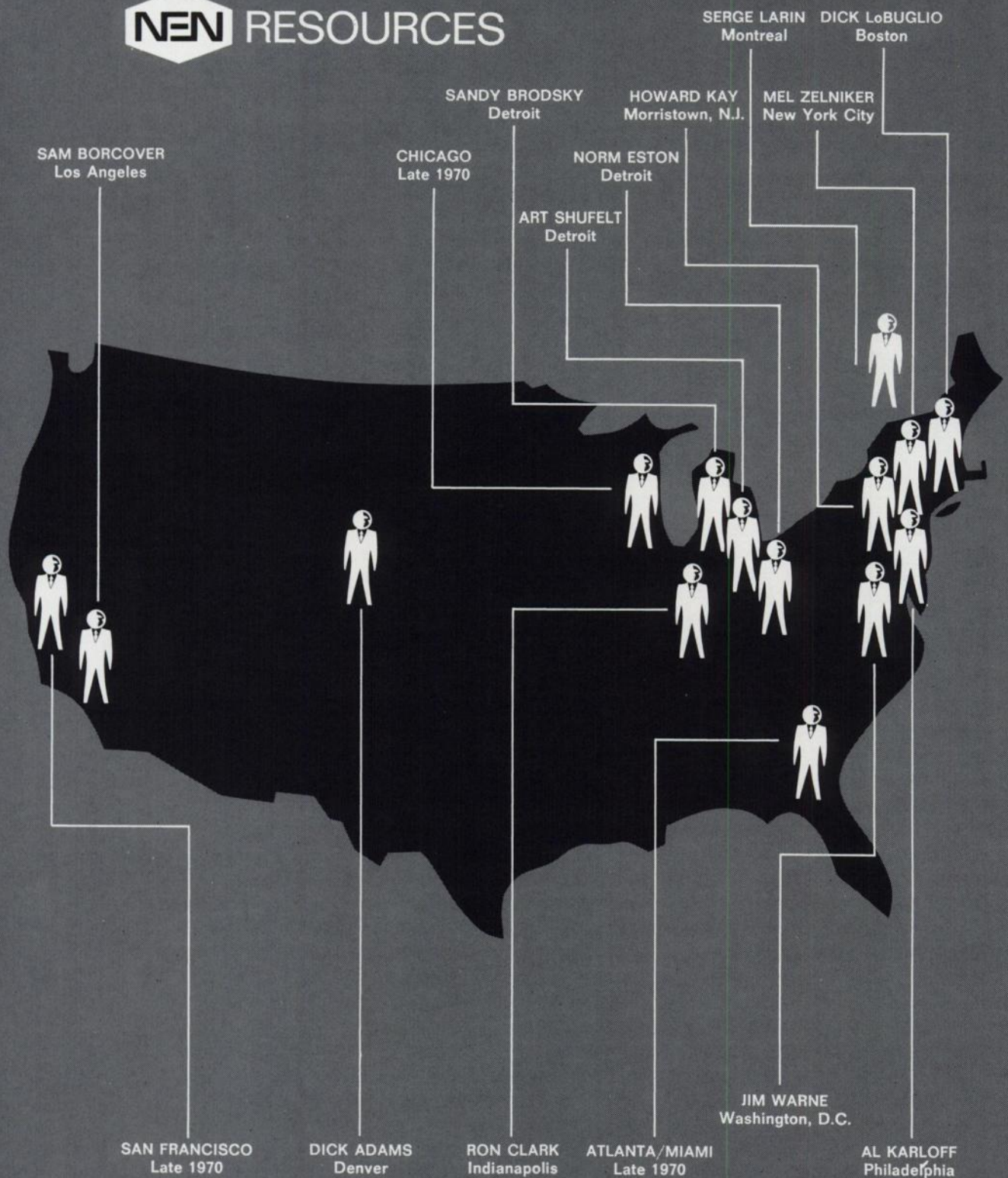
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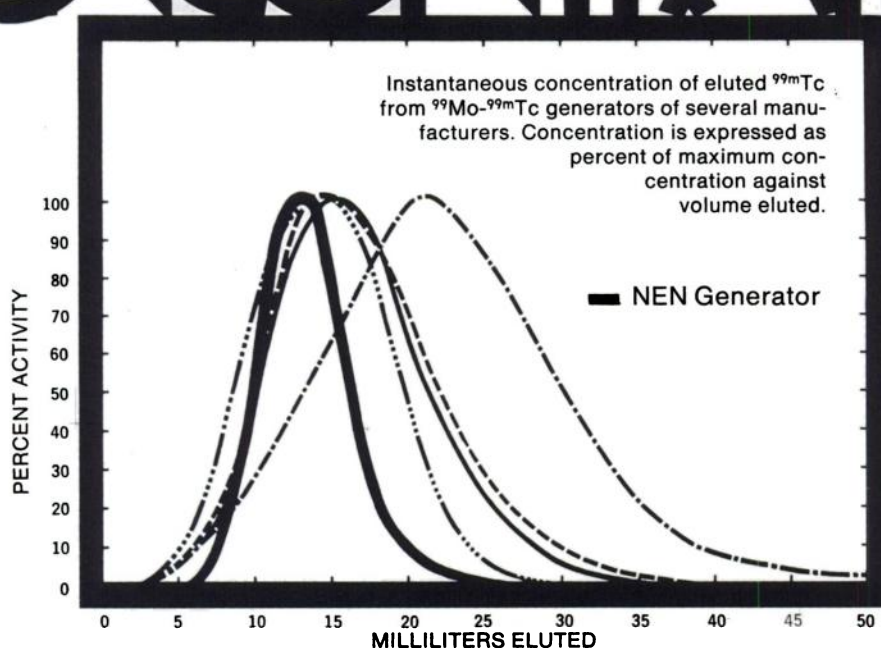
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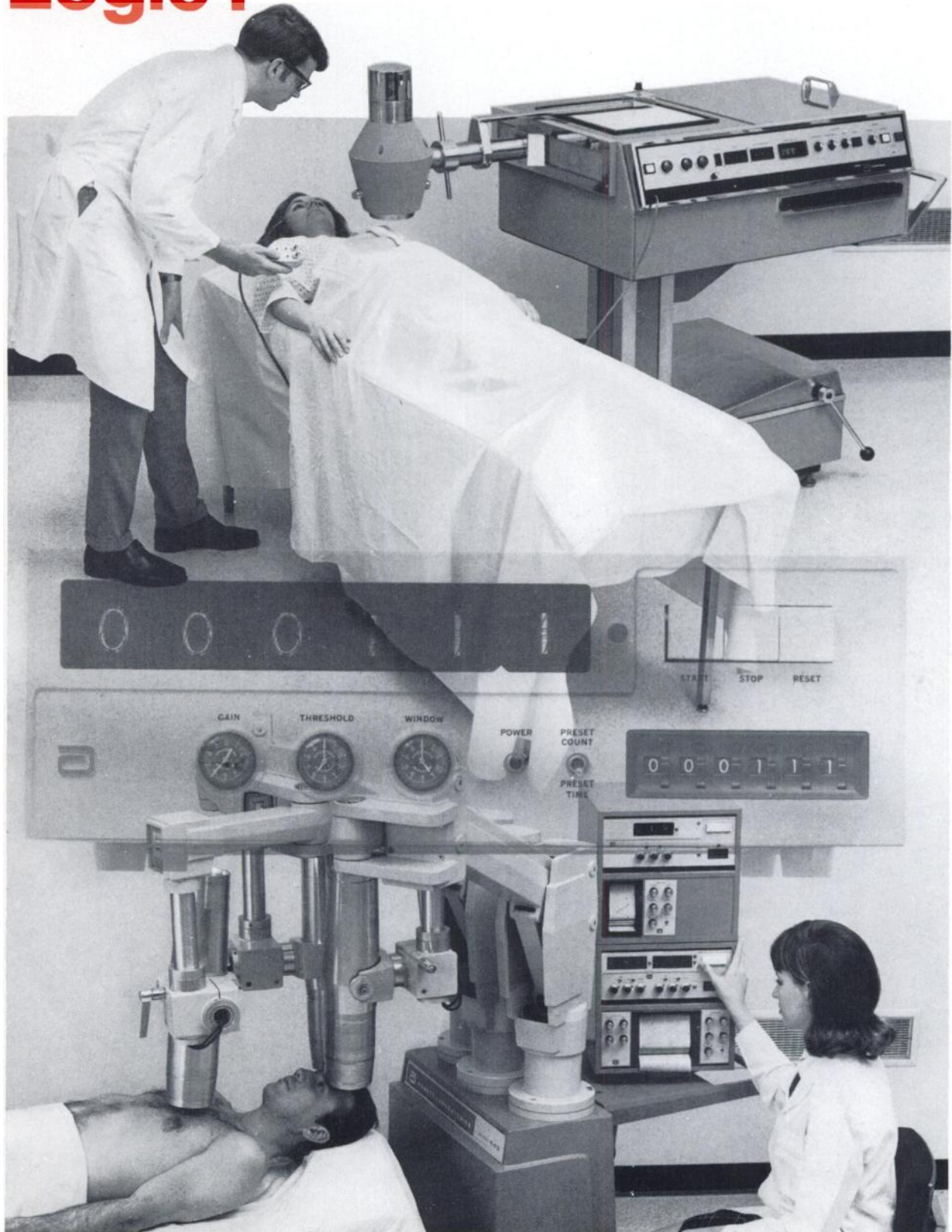
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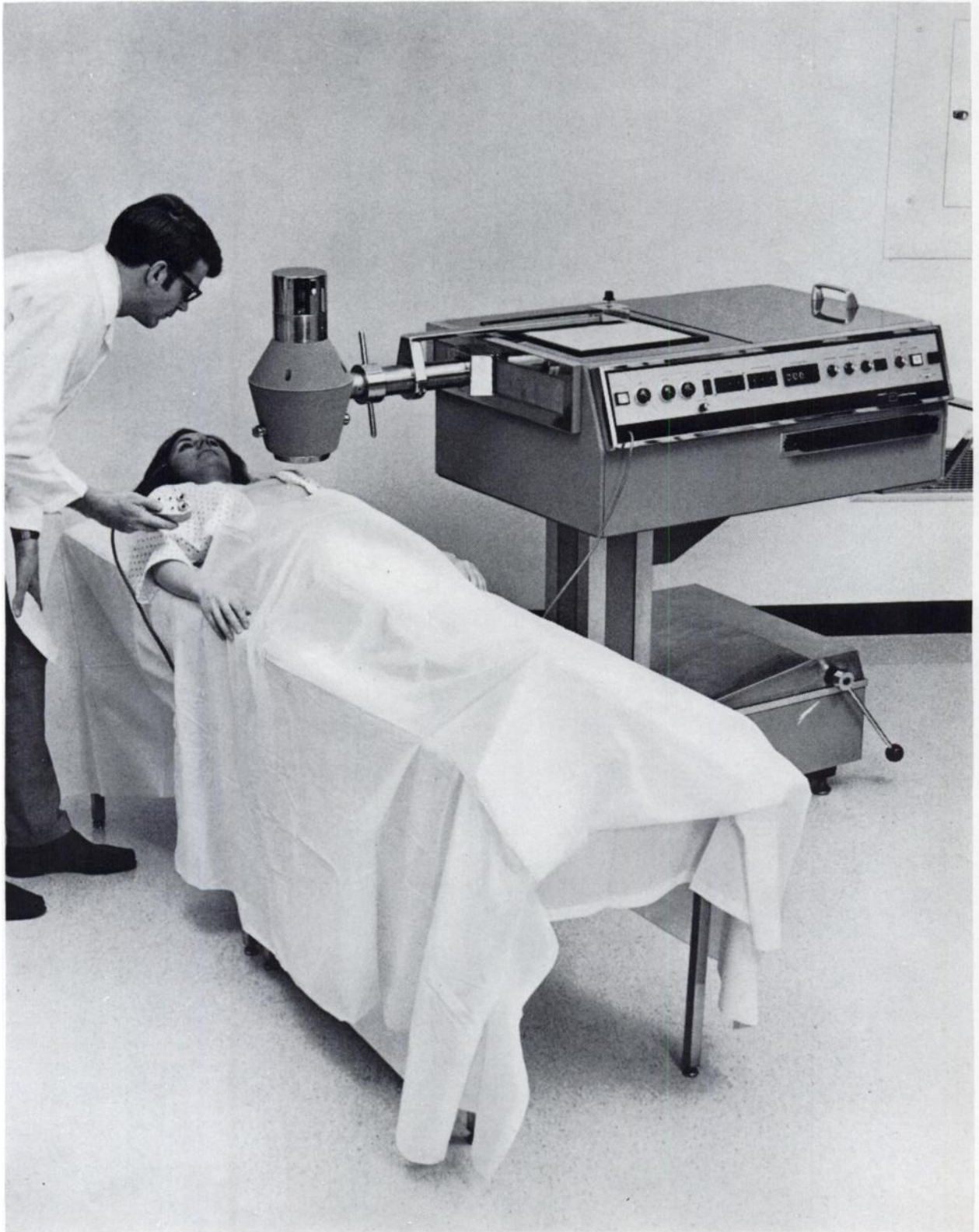
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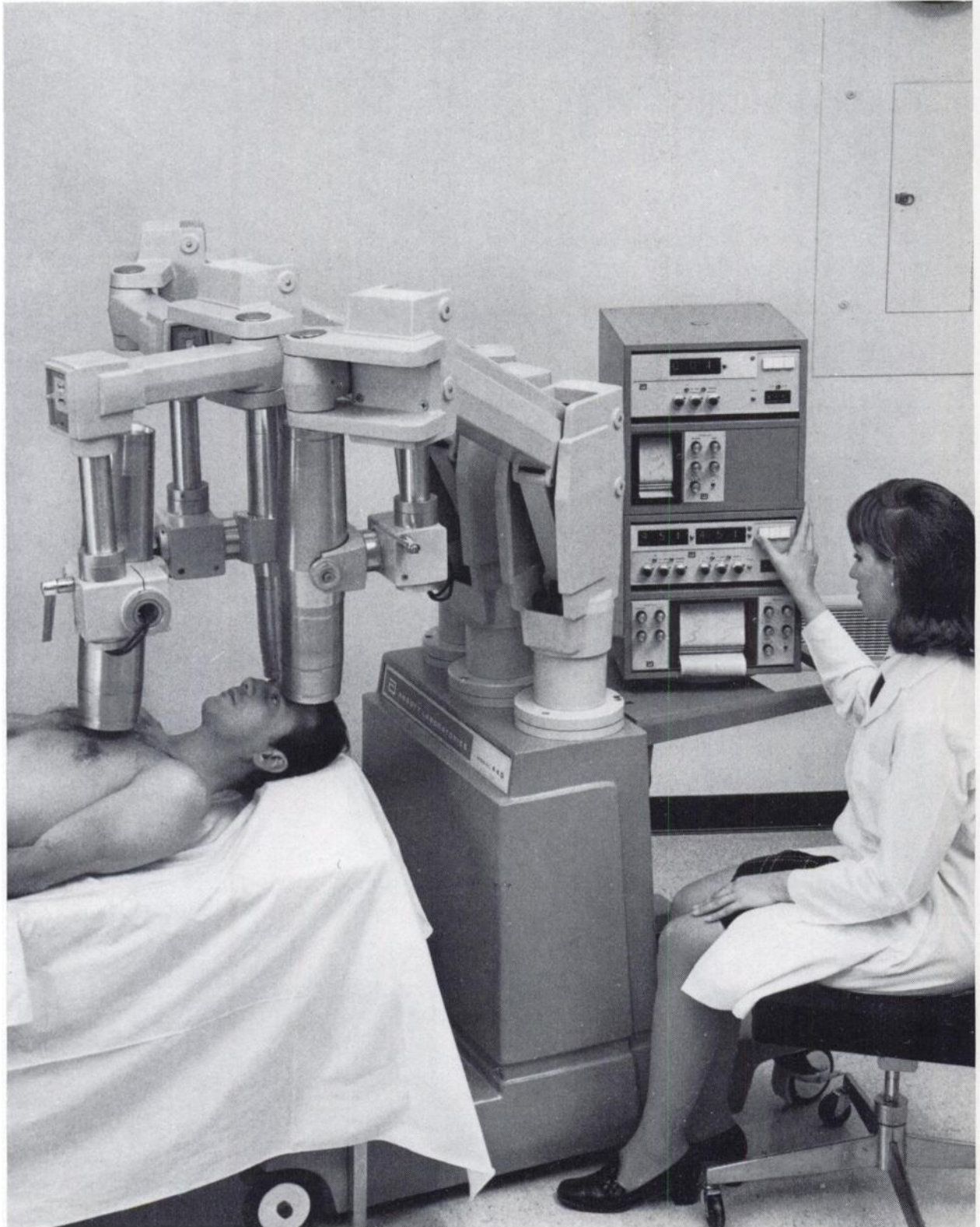
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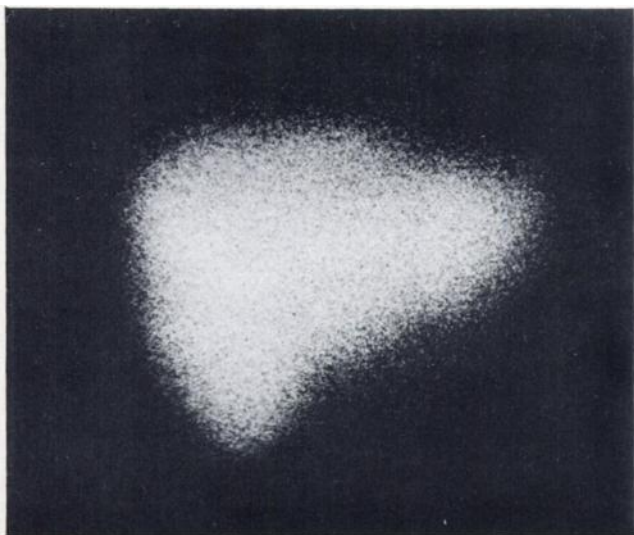


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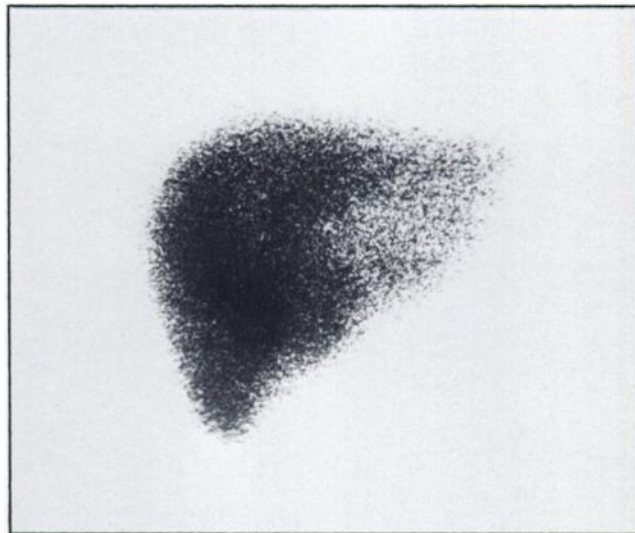
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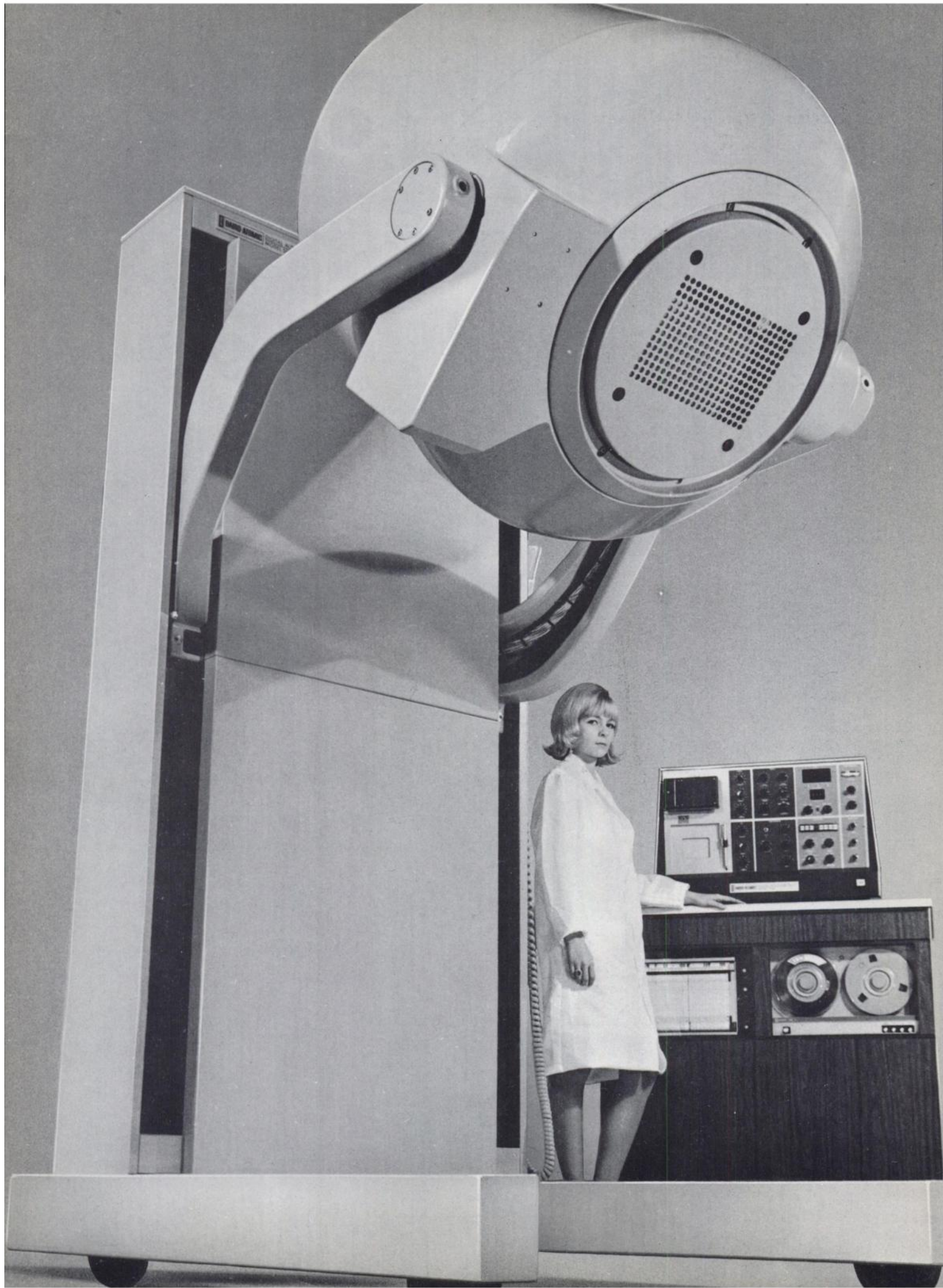


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Up to now, whenever you read in the literature of a clinician using a "scintillation camera," the chances are it could mean only one thing. He was using *our* scintillation camera—the Nuclear-Chicago Pho/Gamma® III Scintillation Camera or one of its predecessors.

That fact prompts us to call Pho/Gamma III the most (if you will) experienced scintillation camera there is. And, as such, it's the instrument of choice for the in-vivo visualization of radioisotopes in body organs.

Note that we've given the current Pho/Gamma detector a significantly

increased range of positioning. We've also improved the electronics and arranged everything to fit into a human-engineered desk console.

And, perhaps most importantly, no Pho/Gamma III will ever become obsolete. Because its performance can be continuously enhanced through an always-widening array of accessories. Recently added to this array are the Data-Store/Playback Accessory, the Super-8/Persistence Scope Accessory, and the CDS-4096 Clinical Data System. Which join the following accessories: 35-mm automatic time-lapse camera for sequential scintiphotos; dual-pen recorder/dual-channel rate-meter; Photo/Scope III attachment for 1-to-1 scintiphotos; and high-speed digital printer.

The proof of Pho/Gamma's experience is in the hands of your Nuclear-Chicago sales engineer. Please call him or write to us.

You'll find that we're the people who successfully marketed the first and, consequently, the most experienced scintillation camera—the Pho/Gamma III.

And experience, after all, is the best teacher.

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**The world's
most experienced
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