The Superior Nuclide For Thyroid Studies
Sodium Iodide I 123
A Superior Thyroid Agent

Sodium Iodide I 123 is superior to I 131 because of its low radiation dose to the patient, its short half-life of 13.2 hours, and its imaging energy of 159 KeV.

Sodium Iodide I 123 is superior to Tc99m because it is trapped and organified by the thyroid gland and, therefore, will image the "cold," non-functioning node that may appear "hot" or "cold" with Tc99m.¹,²

For a Consistent Quality Image.....Sodium Iodide I 123

DESCRIPTION: Sodium iodide I 123 for diagnostic use is supplied as capsules and in vials as an aqueous solution for oral administration. At calibration time, each capsule has an activity of 100 microcuries and each vial contains solution with a total specific concentration of two millicuries per ml.

INDICATIONS: Sodium iodide I 123 is indicated for use in the diagnosis of thyroid function and imaging.

CONTRAINDICATIONS: None known.

WARNINGS: This radiopharmaceutical should not be administered to children or to patients who are pregnant or to nursing mothers unless the information to be gained outweighs the potential hazards. Ideally, examinations using radiopharmaceuticals, especially those selective in nature, in women of childbearing capability should be performed during the firstfew (approximately 10) days following the onset of menses. However, when studies of thyroid function are clinically indicated for members of these special population groups, use of I 123 would be preferable to the use of I 131 in order to minimize radiation dosage.

Adequate reproduction studies have not been performed in animals to determine whether this drug affects fertility in males or females, has teratogenic potential, or has other adverse effects on the fetus. Sodium iodide I 123 should be used in pregnant women only when clearly needed.

PRECAUTIONS: Sodium iodide I 123, as well as other radioactive drugs, must be handled with care. Appropriate safety measures should be used to minimize radiation exposure to clinical personnel. Care should also be taken to minimize radiation exposure to the patient consistent with proper patient management. The prescribed sodium iodide I 123 dose should be administered as soon as practicable in order to minimize the fraction of radiation exposure due to relative increase of radionuclidic contaminants with time. The uptake of I 123 may be decreased by recent administration of iodinated contrast materials, by intake of stable iodine in any form, or by thyroid, antithyroid, and certain other drugs. Accordingly, the patient should be questioned carefully regarding diet, previous medication, and procedures involving radiographic contrast media.

ADVERSE REACTIONS: There were nine adverse reactions reported in a series of 1,393 administrations. None of these were attributed to I 123. Five adverse reactions, consisting of gastric upset and vomiting, were attributed to a filler in the capsule. Two cases of headache and one case of nausea and weakness were attributed to the fasting state. One case of garlic odor on the breath was presumed to be attributable to the presence of tellurium.

Dosage AND Administration: The recommended oral dose range for diagnostic studies of thyroid function in the average adult patient (70 kg) is from 100 to 400 microcuries. The patient dose should be measured by a suitable radioactivity calibration system immediately prior to administration. Concentration of I 123 in the thyroid gland should be measured in accordance with standardized procedures.

Special Consideration: 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.

How Supplied: Sodium iodide I 123 for oral administration is supplied in aqueous solution in glass vials of 1mCi and in capsules of 100μCi.
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The Pho/Gamma Whole Body Accessory combines the proven diagnostic capabilities of the Pho/Gamma LFOV Camera with a newly designed whole body accessory utilizing a moving detector concept to provide large-area, high-resolution images. Both whole body and single organ imaging, requiring an X Y table, can be performed with equal utility and ease. For procedures not requiring the table, the table itself may be easily rolled aside. The Whole Body Accessory features selectable speeds for optimized whole body imaging, operational simplicity, and rapid data acquisition for high patient throughput.

The Whole Body Accessory may be ordered with the following Pho/Gamma Cameras:
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- ZLC™/37
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SEARLE
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Division of Searle Diagnostics, Inc.
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Des Plaines, IL 60018
For the past decade, nuclear medicine has enjoyed a continuing stream of new radiopharmaceuticals, new isotopes, new diagnostic procedures — and new patients. Many of these new diagnostic procedures resulted directly or indirectly from the investments in product research and development, testing, production, and promotion by a single company: New England Nuclear.

We supported investigators with grants to develop their ideas into agents suitable for animal and human testing...we invested in the production facilities to manufacture sufficient quantities of radiopharmaceuticals and isotopes to perform the studies necessary to bring new products to you.

And then, we underwrote an effort unique in nuclear medicine — we began spending hundreds of thousands of dollars each year to inform primary-care physicians and specialists why they should send their patients to nuclear departments for these new studies.

Such investments in new product development and physician education are common among traditional pharmaceutical companies producing proprietary products that can be patented. However, all NEN's investments were made on products for which no exclusivity of patent protection was available. Some of NEN's investments were not successful. A few were, however — and they profoundly changed nuclear medicine.

Of course, NEN could have waited for other companies to develop new procedures and products...to carry the risk and investment of pioneering trial and error. We could have waited until someone else created a demand for new isotopes, and then capitalized on their efforts.

Instead, we built four of our own cyclotrons, and are currently building a multimillion-dollar linear accelerator — further evidence of NEN's unique commitment to research and development innovation in isotope and radiopharmaceutical production.

If NEN had not been so committed to advancing nuclear diagnostics, perhaps bone scans might still be done with strontium...and techniques such as tumor, abscess, and myocardial perfusion imaging might still be subjects for academic — not clinical — consideration.

NEN has maintained a high level of customer acceptance of its isotopes and radiopharmaceuticals, thanks to physicians and technologists who understand that when they trust their business to NEN they are sharing our investment in future nuclear diagnostics...in the profession's future ability to diagnose diseases for which medicine has no agents today...and in the effort to communicate the benefits of nuclear diagnostics to the medical community.
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All above features incorporated into a Module designed to fit into certain Mobile cameras.

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Multi-gated blood pool studies can be acquired in either single or sequential modes with the ejection fraction data displayed for one study or up to eight stress or intervention studies at once.

Regional wall motion changes within the heart can be displayed through "stroke volume" and "ejection fraction" images. Additionally, paradox images enhance the diagnosis of dyskinetic myocardial segments for complete cardiac analysis.

A gated 128 by 128 mode reduces motion blur in myocardial images without significantly prolonging study time.

The ACAP Program provides an automated wall detection method for outlining left ventricular borders and provides accurate, reproducible left ventricular ejection fractions.
"EJECTION FRACTION CALCULATION START TO STOP IN 3 MINUTES OR LESS (ECAP)"

Ejection fraction processing takes 3 minutes or less using Scintiview’s™ microprocessor based electronics, English language pushbutton operation and ECAP (Extended Cardiac Analysis Package).

ECAP features extended wall motion analysis via “stroke volume”, “ejection fraction” and “paradox” images. 128 x 128 gated acquisition for myocardial images, and sequential acquisition and processing “batch” of multi-gated blood pool studies.

"DEFINE LEFT VENTRICULAR BORDER WITHOUT OPERATOR INTERVENTION (ACAP)"

ACAP, the third in a series of new cardiac performance packages, provides complete and automatic definition of the left ventricular border in each frame of a multi-gated study, without operator intervention. ACAP also includes all of ECAP’s features.

Acquisition and Processing Features

Operator selection of study termination parameters (memory full, time). For intervention studies, up to eight sequential multi-gated blood pool studies may be acquired. Rapid analysis of ventricular parameters can be obtained conveniently by use of light pen or automatically via an advanced edge detection algorithm requiring little or no operator intervention. Storage of R-R time intervals, ejection fraction data, volume curve and regions of interest is permitted.

Myocardial Gated Imagery

Stop action viewing of technetium pyrophosphate infarct images or Thallium-201 perfusion images is provided in a 128 x 128 matrix. 100 millisecond time intervals provide motion deblurring without excessively prolonged study time. Thallium-201 four frame 128 x 128 gated images may be displayed in cine mode for visualization of myocardial thickening.

Extended Wall Motion Analysis

Display of regional volume changes on a pixel by pixel basis is provided in a static gray scale format via “functional” images. Analysis of dyskinetic wall motion is obtained by use of the “paradox” image. Overlap of the diastolic and systolic borders over the “stroke volume” image are possible to aid in ROI assignment over the left ventricle.

ECAP and ACAP are part of our commitment to nuclear cardiology. For complete information on ECAP, ACAP, and/or our line of nuclear cardiology products, Pho/Gamma® LEM®, Pho/Gamma SFOV and LFOV™, Pho/Con®, Gamma/Cor®, Slant Hole Collimator, or Image Magnifier-Rotator, call or write today.
The Pho/Gamma® LEM Scintillation Camera provides high resolution, high count rate nuclear medicine imaging capability at the patient's bedside. The LEM is available with power assist or optional power drive and is suitable for mobile applications or use in stationary settings such as in stress testing laboratories.

The Image Magnifier/Rotator allows magnification (up to 2.75 times normal size) of camera data prior to digitizing and display. Magnification aids in visualizing small organs imaged with a large field of view camera. The Image Rotator provides 360° rotation of camera data to allow operator chosen orientation of clinical studies.

The Pho/Gamma® LFOV® Scintillation Camera is a high performance LFOV Detector, integrated with a microprocessor-based Standard Console (Scintiview™ with Micro Dot Imager™) that provides cardiac analysis and processing with optional ECAP and ACAP programs. ZLC provides uniformity and linearity correction in a manner which will not distort quantitative camera data. The demanding camera requirements necessary to perform quantitative nuclear cardiology are met with ZLC.

The Gamma/Cor® RCG is a lightweight, highly mobile cardiac system which offers a unique direct method for rapid, repeatable assessment of left ventricular ejection fraction in a minimally invasive, safe manner right at the patient's bedside. The Gamma/Cor also provides assessment of other cardiac parameters such as cardiac output.
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All Tomovision equipment is manufactured by the Technicare Corporation. So we take care of it all. And we're building our one source reputation with a commitment to excellence. Excellence in training of our field service engineers. Excellence in providing prompt, local service throughout the nation. Tomovision is your assurance that nuclear tomography will deliver consistent, reliable performance for improved clinical confidence.

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**WARNING:**
Excessive amounts of sodium chloride by any route may cause hypopotassemia and acidosis. Excessive amounts by the parenteral route may precipitate congestive heart failure and acute pulmonary edema, especially in patients with cardiovascular disease, and in patients receiving corticosteroids or corticotropin drugs that may give rise to sodium retention. No antimicrobial agent has been added.

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When you're ready to fill your nuclear medicine department's need for a large field gammacamera, remember Toshiba. We're the first.

*Patented Delay Line, U.S. Patent Number 3,717,763

Our third is first again

Toshiba's GCA-402 Jumbo Gammacamera

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<th>DBI RADIOIMMUNOASSAY</th>
<th>IMMUNOENZYME ASSAY</th>
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<tbody>
<tr>
<td>STAT INCUBATION:</td>
<td>15 minutes at 37°C</td>
<td>1 minute</td>
</tr>
<tr>
<td>SENSITIVITY:</td>
<td>0.0004 μM (700 times more sensitive)</td>
<td>0.3 μM</td>
</tr>
<tr>
<td>EXOGENOUS INTERFERENCE:</td>
<td>None</td>
<td>Lypemic Icterus Hemolysis</td>
</tr>
<tr>
<td>STANDARDS SUPPLIED:</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>PRICE:</td>
<td>*57½ cents per tube</td>
<td>$1.86 per tube</td>
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The Pho/Gamma ZLC Standard Camera is a complete imaging system that includes the ZLC Detector and microprocessor-based Standard Console with Micro Dot Image™. ZLC is offered in both 37 tube and 75 tube versions, each having a full 15.25 inch field of view. If you already own a Pho/Gamma LFOV, we offer a complete ZLC package to improve the performance of your camera.

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**Sharp.** Kodak NMB (blue base) and NMC (clear base) films feature single-coated emulsions to eliminate parallax. Since they are orthochromatic and, therefore, sensitive to both blue and green CRT phosphors, they record all the information on blue or green cathode-ray tubes. The built-in halation control provides for the imaging of crisp sharp dots, resulting in images with clearly defined edges.

**Informative.** Whether you use a multi- or single-image format, Kodak NMB and NMC films have the "view-box" quality that no other medium can match. The inherent contrast level and excellent resolution of these films enable dot concentration patterns to image both flow and uptake studies effectively.

**Durable.** Both films are coated on a tough 7-mil Estar base. These films resist curling or cracking and can form a convenient and reliable part of a patient’s record for years to come.

Kodak NMB and NMC films can be processed in 90 seconds and are available in a variety of sheet film sizes. If you would like to know more about these and other Kodak films for nuclear medicine, ask your Kodak Technical Sales Representative, or write: Eastman Kodak Company, Health Sciences Markets Division, Dept. 740-B, Rochester, New York 14650.

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The article discusses the use of Technetium Tc 99m in clinical settings. It explains the physical characteristics of Technetium Tc 99m and its decay by isomeric transition. The article also covers the use of Technetium Tc 99m for the production of sodium pertechnetate and its applications in various medical procedures. The text includes tables and calculations related to the use of Technetium Tc 99m in radiation dosimetry and patient care. The article concludes with a summary of the benefits and limitations of using Technetium Tc 99m in medical procedures.
New High Activity
Union Carbide
CintiChem

Technetium 99m Generators
(Technetium Tc 99m Generators for the
Production of Sodium Pertechnetate Tc 99m)

AVAILABLE EXCLUSIVELY FROM UNION CARBIDE

CALIBRATIONS IN Mo 99
8,280 mCi to 16,600 mCi calibration sizes, in increments of approximately 830 mCi.
Tuesday and Thursday calibration days.

SAFETY
The depleted uranium internal shielding of the column possesses greater density and therefore superior shielding properties than the lead shielding used in lower activity generators.

The CINTICHEM® 8,280 mCi Technetium 99m Generator provides an approximate dosimetry of 9.7 mR/hr on the day of calibration, following elution, 18 inches from the surface, without a secondary external shield.1

The weight of a 18,600 mCi Generator in its shipping carton is about 82 pounds, while remaining in the easily shipped low D.O.T. Transport Index II classification.

QUALITY
A special glass column design incorporated in the high activity CINTICHEM® Technetium 99m Generator provides for high yields with as low as a 5 cc elution volume. Furthermore, the specially designed column reduces the potential Al++ and Mo 99 content in the eluate.

VERSATILITY
High activity CINTICHEM® Technetium 99m Generators can reduce the time required to perform quality control because in each single elution volume of activity are provided that would require eluting several lower activity Generators, and quality controlling each eluate.

CONVENIENCE
High activity CINTICHEM® Technetium 99m Generators can dramatically reduce shielded shelf space requirements.

High activity CINTICHEM® Technetium 99m Generators can eliminate long term decay storage.

1Data on file at Union Carbide Corporation, Tuxedo, New York, and with the State of New York, Division of Safety and Health.

For full prescribing information, refer to preceding page.

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(Tochnetium Tc 99m Generators for the Production of Sodium Pertechnetate Tc 99m)

Are designed to maximize radiation protection and for easy elution

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- The UNION CARBIDE Fission Product Mo 99 used in CINTICHEM® Technetium 99m Generators provides Sodium Pertechnetate Tc 99m activity concentrations sufficient for bolus injections.

- CINTICHEM® Technetium 99m Generators come in 32 activity and day of calibration combinations, which can satisfy a wide range of activity needs.

- There are no spring clamps in the fluid path as in competitive wet column systems.

- A new sterile needle is utilized for each elution, reducing the chances of a septic or pyrogenic situation occurring in routine clinical usage. This method offers an advantage compared to competitive dry column systems where the same needle assembly is used for the life of the product.

- Rigid Quality Control testing, which includes an elution check on each Generator, assures that your UNION CARBIDE CINTICHEM® Technetium 99m Generator meets our high internal specifications. Our experience obtained in over 19 years of involvement in Nuclear Medicine assures you of high quality products.

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Net weight is 110 lbs.
Unit price: $880.00
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If you’ve been waiting for an economical way to produce high-quality, low-background medronate (MDP) bone images, wait no more. AN-MDP™, from Ackerman Nuclear, Inc., gives you all of the advantages of medronate—and a lot of medronate for your money.

Superior Images
Medronate produces high-target-to-background scans that readily demonstrate altered osteogenesis.

90–94% blood clearance by two hours after administration

Lowest soft-tissue uptake of all of the phosphonate bone agents in current use.

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- When necessary, imaging may begin an hour after injection (optimal imaging time is 1 to 4 hours).
- AN-MDP is stored and used at room temperature (15–30°C).

Economy

- You get 6 vials of reagent with each AN-MDP kit, instead of the usual 5.

Posterior pelvis

Posterior right side

A 54-year-old male with metastatic CA of the prostate was administered 15 mCi technetium Tc 99m-labeled AN-MDP. The images were recorded at 500K counts. Courtesy of Century City Hospital, Los Angeles.

For complete prescribing information, consult the package insert, a summary of which follows.

AN-MDP™ Technetium Tc 99m Medronate Kit

Indications and usage. Technetium Tc 99m Medronate may be used as a bone imaging agent to delineate areas of altered ostogenesis.

Contraindications. None known.

Warnings. This class of compounds is known to complex cations such as calcium. Particular caution should be used with patients who have or who may be predisposed to hypocalcemia (i.e., slides). Prevention of hypocalcemia can be achieved by the administration of calcium supplements.

Precautions. Contents of the vial are intended only for use in the preparation of Technetium Tc 99m Medronate and are NOT to be administered directly to the patient. Technetium Tc 99m Medronate, as well as other radioactive drugs, must be handled with care and appropriate safety measures should be used to minimize radiation exposure to patients consistent with proper patient management.

To minimize radiation close to the bladder, patients should be encouraged to drink fluids and to void immediately before the examination and as often thereafter as possible for the next 4–6 hours. Technetium Tc 99m Medronate should be formulated within six (6) hours prior to clinical use. Optimal imaging results are obtained 1–4 hours after administration.

Carcinogenesis, mutagenesis, impairment of fertility. No long-term animal studies have been performed to evaluate carcinogenic potential or whether Technetium Tc 99m Medronate affects fertility in males or females. Nursing mothers. Technetium Tc 99m is excreted in human milk during lactation, therefore formula feedings should be substituted for breast feeding.

Pregnancy category C. Animal reproductive studies have not been conducted with Technetium Tc 99m Medronate. It is also not known whether Technetium Tc 99m Medronate can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Technetium Tc 99m should be given to a pregnant woman only if clearly needed. Ideally, examinations using radioactive agents, 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.
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- For greater savings, both single-dose and multidose AN-MDP come in 30-vial ECONO-PAK.

Join the hundreds of nuclear medicine departments who already enjoy the benefits of "MDP" scans. To place your order today, just call us collect: (213) 240-8555.


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**Dosage and administration.** The suggested dose range for i.v. administration, after reconstitution with oxalate-free sodium perchlorate Tc 99m injection, to be employed in the average patient (70 kg) is:

- Bone imaging: 10–20 mCi Technetium Tc 99m Medronate
- Single-dose 6-vial kit
- Multidose 30-vial ECONO-PAK

**How supplied.** AN-MDP™ is supplied both in the single-dose and multidose form. Both are available in sets of 5 or 30 sterile and nonpyrogenic vials. Each nitrogen-flushed vial contains, in lyophilized form:

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog Number</th>
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<tbody>
<tr>
<td>Single dose 6-vial kit</td>
<td>K-401-S</td>
</tr>
<tr>
<td>Single dose 30-vial ECONO-PAK</td>
<td>K-402-S</td>
</tr>
<tr>
<td>Multidose 6-vial kit</td>
<td>K-401</td>
</tr>
<tr>
<td>Multidose 30-vial ECONO-PAK</td>
<td>K-402</td>
</tr>
</tbody>
</table>

AN-MDP™ is a trademark of Ackerman Nuclear, Inc.
PLACEMENT

POSITIONS OPEN

NUCLEAR MEDICINE RESIDENCY. Applications are now being accepted for two-year A.M.A. approved affiliated residency program based at the General Washington University Hospital beginning July 1, 1981. Comprehensive training in basic science, computers, in vitro and in vivo nuclear medicine, including RIA and clinical patient services are provided. Participation in the ongoing research program is encouraged. Contact: Richard C. Rees, M.D., Dir., Div. Nu. Med. G.M.U.C, 901-23rd St. N.W., Washington, D.C. 20037. Phone: (202) 676-3458.

NUCLEAR MEDICINE TECHNOLOGIST Phoenix, Arizona-Large 695-bed hospital has immediate opening for permanent full time registration: Technologist, ASCCP, ARRT or NMTCB. Openings in both RIA and Imaging. For further information send your resume to: Joan Shaw, Personnel Department, Good Samaritan Hospital, 1033 E. McDowell Rd., Phoenix, Az 85006, or call (602) 257-4247. Equal opportunity employer.

ASSISTANT CHIEF, NUCLEAR MEDICINE Service. The Minneapolis Veterans Administration Medical Center seeks candidate for the position of Assistant Chief, Nuclear Medicine Service effective July 1, 1980. Requirements include certification by the ABNM, a strong patient orientation, and expertise in all phases of clinical nuclear medicine including imaging, radioassay and internal radionuclide therapy. In addition, the Assistant Chief, Nuclear Medicine Service will have specific responsibilities in research and education. Applications from all qualified candidates are welcome. Inquiries, including a curriculum vitae and an autobiographical letter, should be sent to: Rex B. Shaffer, M.D., Chief, Nuclear Medicine Service (113), Veterans Administration Medical Center, 54th Street and 48th Ave. South, Minneapolis, MN 55417. An Equal Opportunity Employer.

NUCLEAR MEDICINE TECHNOLOGIST Full time position available for a registered or registrant technologist in a 365 bed acute care hospital. Modern well equipped lab including 2 cameras and a computer. Excellent salary and employment benefits. Interested persons should contact the Personnel Office, Lafayette Home Hospital, 2400 South St., Lafayette, IN 47902. (317) 447-6811.

NUCLEAR MEDICINE TECHNOLOGIST Opening in August 1980 for a full time Nuclear Medicine Technologist in an 80 bed acute care hospital. Applicant must be certified by A.R.R.T. or eligible. Perform all types of exams, daily calibrations and quality control tests on equipment. Responsible for technique charts and maintaining department reports, records and files. Located in Ventura County, Southern California, close to mountain and beaches. Contact Personnel, Pleasant Valley Hospital, 2309 Antonio Ave., Camarillo, CA 93010.


NUCLEAR MEDICINE, UNIVERSITY OF Washington Seattle, Washington: Comprehensive training in radioimmunoassay, chromatography, biochemistry, scintillation counting, tissue and cell culture, computer use, and instrumentation. Excellent salary and fringe benefits. Contact: Dr. J.E. Verner, Division of Nuclear Medicine, University Hospital, Seattle, WA 98195, or call (206) 543-3576.

NUCLEAR, PHARMACIST-STAFF POSITIONS available immediately in centralized nuclear medicine facilities located throughout the United States. Board certified applicants with radio-pharmacy experience preferred. Also good opportunities for management oriented applicants. Excellent fringe benefits. Salary commensurate with experience. Send resume and salary history to Personnel Department, Nuclear Pharmacy, Inc. P.O. Box 25141, Albuquerque, NM 87125, or call (505) 292-5820 EOE.

RADIOLOGIST, BOARD CERTIFIED in Nuclear Medicine, to join large multi-specialty group practice as opportunity to expand department and plan new department for new hospital in 1984. Salary negotiable. Liberal fringe benefits. Contact: Hawaii Permanent Medical Group, Inc., 1697 Ala Moana Blvd., Honolulu, HI 96815. (An Equal Opportunity Employer)

ACADEMIC POSITION AT THE ASSOCIATE or Assistant Professor level available in the Nuclear Radiology Division of the Department of Radiology at the University of Texas Medical School at Houston. Certification in Radiology and Nuclear Medicine with special competence in Nuclear Radiology is required. Applicants should have a sincere interest and a performance record in relevant clinical or basic nuclear research. Please send curriculum vitae to: Robert W. McConnell, M.D., Director, Division of Nuclear Radiology, Department of Radiology, The University of Texas Medical School at Houston, 6431 Fannin Street, Houston, TX 77030.

NUCLEAR MEDICINE TECHNOLOGIST Immediate full time position available for registrant or eligible technologist to perform imaging procedures and to be trained in CT scanning. Call or write: Radiology Department, Personnel Dept., 1700 Providence Drive, Waco, Texas 76703. (817) 753-4551, ext. 260.

NUCLEAR MEDICINE RESIDENCY-830 bed VA General Hospital offers A.M.A. approved two year program. Two positions available July 1981. Located in San Fernando Valley area of Los Angeles, 15 minutes from affiliated hospitals (UCLA and LAC). Program covers isotope and ultrasound imaging, in vivo and in vitro procedures. Includes PhD, and all recent computer and cardiology procedures. Prerequisite: Two years post graduate training in medicine, radiology, or comparable discipline. M.D. or equivalent degree. Salary is $32,000. Contact: Marvin B. Cohen, M.D., Chief, Nuclear Medicine Service. Non-discrimination in employment. University of California, 16111 Plummer Street, Sepulveda, CA 91343.

SECOND PHYSICIAN NEEDED for active, innovative NM Department in 600 bed university affiliated community hospital. Active cardiac program, local NM group. Salary, good fringe benefits, ideal southwestern living. Resume to S. V. Hills, M.D., Box 42615, Tucson, AZ 85733.

NUCLEAR MEDICINE TECHNOLOGIST Immediate opportunity for an experienced registrant or registry eligible technologist in a rapidly expanding Radiology Department. 100 plus bed hospital. Excellent working conditions, fringe benefits, and salary. Send resume to Personnel Department, Lathrop Medical Center, Milledgeville, GA 31067. (404) 421-4800.

NUCLEAR MEDICINE TECHNOLOGIST-immediate opening for a registered nuclear medici- technologist in a 600-bed hospital. We offer excellent salary and fringe benefit package. Qualified applicants should contact by calling (717) 782-4250 or by writing Mr. Horner, C/O Department of Radiology, UPMC Medical Center, Harrisburg, PA 17105.

CALIFORNIA-EXPERIENCED NUCLEAR Medicine Technologists are invited to call us to consider immediate career opportunities at our 340-bed acute care, university affiliated teaching hospital. In addition to excellent salary and benefits, we provide the finest in equipment and a very professional work environment. Call or submit resume to: Ms. Lynne Luboviski, Employment Manager, St. Mary Medical Center, 1050 E. 9th Avenue, Long Beach, CA 90813, ext. 435-4441, ext. 420. An equal opportunity employer—male/female/handicapped.

NUCLEAR MEDICINE PHYSICIAN-North Shore University Hospital, a teaching hospital of Cornell University Medical College, is seeking a Nuclear Medicine Physician who is board certified or eligible. The individual will fill a staff position in the Nuclear Medicine Department of the hospital and receive an academic appointment at Cornell University Medical College. Prior training in Internal Medicine is preferred. Applicants are required to assume clinical teaching and research responsibilities. Position is available July 1, 1980. Address inquiries to: David Margulies, M.D., Chief, Nuclear Medicine Division, Department of Medicine, North Shore University Hospital, 300 Community Drive, Manhasset, NY 11030. (516) 562-4400. An equal opportunity employer.

NUCLEAR MEDICINE TECHNOLOGIST Excellent opportunity for recent graduate in nuclear med. tech. to work in imaging. We are a full service department within a 500 bed general acute care hospital. Salary commensurate with experience. Excellent fringe benefits. Qualified applicants submit resume to: Mercy Hospital Medical Center, Personnel Dept., 6th & University, Des Moines, IA 50314.

DIRECTOR OF DIVISION OF NUCLEAR Medicine required for 700-bed acute care Mc Gill University teaching hospital. Position available immediately. Interested candidates should apply enclosing a copy of their curriculum vitae to: Dr. P. L. Heipern, Director of Professional Services, Medical Center, 3735 Cote Ste. Catherine Road, Montreal, Quebec H3T 1E2.

CHIEF NUCLEAR MEDICINE TECHNOLOGIST. Immediate opening in fully accredited 200 bed community hospital in Northern California. Equipment includes LFOV Camera, dual and single scanners, and ADAC Computer. Portable camera to be added in the near future. Active department provides imaging (including nuclear cardiology), in vivo, and therapy. Appropriate experience required. Must be registered. Send resume to: Mercy Medical Center, Chaiton Heights, Redding, CA 96001. (916) 243-2121.

NUCLEAR MEDICINE TECHNOLOGIST needed in 600 bed hospital with an expanding Nuclear Medicine Ultrasound service. Excellent working conditions with liberal benefit program. Salary commensurate with experience. Send resume to: Personnel Director, Methodist Medical Center, 7th-9th on Faron, St. Joseph, MO 64501. Phone (816) 271-7512. An equal opportunity employer.

RADIOLOGICAL PHYSICIST: A PHYSICIST at the M.S. level wishing to practice all aspects of applied radiological physics required for a professional consulting firm. Experience in radiation treatment planning desired. Your activities include service in (1) Radiation Therapy Planning, (2) Nuclear Medicine, (3) Diagnostic Radiology, and (4) Radiation Protection. Excellent salary and benefits. Submit resume to: Box 700, Society of Nuclear Medicine, 475 Park Ave. So., New York, NY 10016.

THE JOURNAL OF NUCLEAR MEDICINE
NUCLEAR PHARMACY MANAGERS
Managerial positions are available in the Nuclear Pharmacy Division of a growing national corporation. Candidates must have at least two years of centralized Nuclear Pharmacy experience, and qualify for NRC license as responsible individuals for a nuclear pharmacy facility. Send resume to: Mr. David Manthei, 1825 Emerson Street, Denver, CO 80218.

PHYSICIST FOR NUCLEAR CARDIOLOGY Laboratory. Position open for person with Ph.D or masters (or equivalent) with experience in physics, computer science or bioengineering and with a strong background and interest in image processing and computer programming to direct Nuclear Cardiology computer operations at the New York Hospital-Cornell Medical Center. Previous biomedical related experience in research is desirable. The successful candidate will be required to organize the existing computer operation and staff of the Nuclear Cardiology laboratory for the acquisition, storage, analysis and retrieval of nuclear data relating to patients with heart disease and high blood pressure. He/She will work closely with the Nuclear Cardiology Physicists in systems development. Academic rank at Cornell University Medical College will depend on background and experience. Salary is highly competitive. For further information contact: Jerome G. Jacobstein, M.D., or Jeffrey S. Boren, M.D., co-directors, Nuclear Cardiology, The New York Hospital, 525 East 68th St., New York, NY 10021.

POSITIONS WANTED

NUCLEAR MEDICINE COORDINATOR
Physics Instructor, prefer University Hospital/Community College. Presently Chief Technologist, ARRT. Bachelor's, Master's Degrees, math/physics. Excellent teaching background. Call collect, early evenings, (212) 432-8361.

TECHNOLOGISTS AVAILABLE SEPTEMBER, 1980: Graduating from Mayo Foundation Rochester, Minnesota; four-year NMT Degree Program. Contact: Michael Sinclair, NMT, or Nancy Hocking, NMT, Mayo Foundation, Rochester, MN 55901. (612) 284-3055.

NUCLEAR CARDIOLOGIST-BOARD certified ABIM, Internal Medicine and Cardiology by ABIM, extensive experience with radio-nuclide stress testing, desires nuclear medicine practice with emphasis in cardiology. Reply Box 701, Society of Nuclear Medicine, 475 Park Ave. So., New York, NY 10016.


NUCLEAR MEDICINE PHYSICIAN, ABMN, ABIM, FACP, seeks relocation as Director of Nuclear Medicine at progressive hospital. Currently Director of active Department of Nuclear Medicine and Diagnostic Ultrasound. Experienced in all aspects of these specialties (administration, imaging, RIA, computers, cardiology, B-Mode and real-time ultrasound.) All positions will be considered. For further information and C.V., reply Box 703, Society of Nuclear Medicine, 475 Park Ave. So., New York, NY 10016.

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Please contact DESERT HOSPITAL, P.O. Box 1627, Palm Springs, CA 92263 or call collect (714) 323-6287.

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ABNM certified with background in Internal Medicine and eligible for faculty appointment at university of Louisville School of Medicine. Will serve as Staff Physician/Assistant Chief Nuclear Medicine Service at this 423 bed acute GM & VA Medical Center, rapidly growing Cardiology Program in addition to Imaging, Ultrasound, and Radioimmunoassay, send inquiries including curriculum vitae to:

Ellie Samola, M.D.
Chief, Nuclear Medicine Service
Veterans Administration Medical Center
800 Zorn Avenue
Louisville, KY 40202

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CHIEF TECHNICIAN
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Progressive 614 bed acute care multi-specialty hospital with university affiliation seeking chief technician with 5 years experience. Supervisory experience essential. Must be capable of Nuclear Cardiology. No R.I.A. Position available August 15, 1980. Salary commensurate with experience. Excellent benefits package. Send resume and salary requirements to:

Bruce E. Williams
Personnel Department
Ohio Valley Medical Center
2000 Eoff Street
Wheeling, WV 26003

or Call Collect (304) 234-8169

NUCLEAR MEDICINE TECHNOLOGIST

ILLINOIS: Nuclear Medicine Technologist, registered or eligible, to fill position as Staff Technologist, in 333 bed community hospital, located in a suburb 25 miles north of Chicago. Duties will include both dynamic and static imaging procedures, full complement of nuclear cardiology procedures and limited in vitro procedures. The department is a modern, fully equipped laboratory which includes two Baird system 77 cameras, a Raytheon XL-91 camera and a computer. If you are interested in achieving excellence in a professional environment where emphasis is on personalized care, we can offer you a salary commensurate with experience, continuing inservice education, modern on-site apartments as available at a nominal rent, congenial working conditions, plus comprehensive benefits program. Send detailed resume including salary requirements to:

Barbara Griffin
Manager of Employee Relations
Highland Park Hospital
718 Glenview Ave.
Highland Park, IL 60035

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Manager of Employment
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Volume 21, Number 7
RADIOLOGIST
Opening for ABR and ABNM Certified Radiologist in 611 bed regional community, teaching hospital affiliated with The Medical University of South Carolina and University of South Carolina School of Medicine; 10 radiologists associated in practice; outpatient clinic; personnel in Nuclear Medicine/Ultrasound division, 10; 15,000 Nuclear Medicine procedures per year. Position includes divisional directorship for Nuclear Medicine/Ultrasound and practice is predominantly Nuclear Medicine and diagnostic ultrasound but includes some diagnostic radiology including CT. Columbia is an attractive and progressive city located in the Midlands of South Carolina. Richland Memorial Hospital offers a competitive compensation package that rewards excellence and experience.

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R.L. Waldron, II, M.D.
Director of Radiology
Richland Memorial Hospital
3301 Harden Street
Columbia, SC 29203

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A certified or certification-eligible physician in nuclear medicine is required at the Cross Cancer Institute. Practice is primarily but not entirely concerned with malignant disease. The department is well equipped with three gamma-cameras (one equipped for SPECT) and a tomographic scanner, and is involved in teaching technologists and residents. The position would be appropriate for faculty appointments in the Division of Oncology and Department of Radiology.

Applications with resume should be directed to:

Dr. B.C. Lentle
Director, Department of Nuclear Medicine
Cross Cancer Institute
11560 University Avenue
Edmonton, Alberta, Canada T6G 1Z2

RESIDENCIES IN NUCLEAR MEDICINE
The Department of Radiology at Harvard Medical School invites applications to its two-and one-year residency programs in nuclear medicine and nuclear radiology for 1981. Further requests should be directed to S. James Adelstein, M.D., Ph.D., Director, The Joint Program in Nuclear Medicine, Department of Radiology, Harvard Medical School, 25 Shattuck Street, Boston, MA 02115.

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