CLINICAL TASK: Evaluate differential renal function in a patient with multiple bladder and ureteral surgeries, still having recurring urinary tract infections.

CONCLUSION: Right hydronephrosis in a somewhat chronically obstructive appearing pattern. Small, poorly functioning left kidney contributing approximately 14% to total renal function.

Better Data Density—Better Statistics—Higher Detector Efficiency

*Courtesy St. Joseph Hospital, Orange, Calif.
For the past 20 years you have used I131 Iodohippurate for your renal studies. Now I123 Iodohippurate is available for your use. Use Nephroflow — The physics are better, the statistics are better and the detection efficiency is better. Move into the future.

**Comparison of I123 and I131**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>I123</th>
<th>I131</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mode of Decay</td>
<td>Electron capture</td>
<td>Beta</td>
</tr>
<tr>
<td>Half-Life</td>
<td>13.2 hours</td>
<td>193 hours</td>
</tr>
<tr>
<td>Principal Gamma Energy (keV)</td>
<td>159</td>
<td>364</td>
</tr>
<tr>
<td>Intensity</td>
<td>84%</td>
<td>82%</td>
</tr>
<tr>
<td>Half-Value layer, lead, cm</td>
<td>0.037</td>
<td>0.24</td>
</tr>
<tr>
<td>Detection Efficiency:</td>
<td>1/4&quot; NaI(Tl) crystal</td>
<td>74.5%</td>
</tr>
</tbody>
</table>

**DESCRIPTION:** Nephroflow® is supplied as a sterile, apyrogenic, aqueous, isotonic sodium chloride 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 sodium chloride for isotonicity, and up to 0.1 percent alcohol. The solution is buffered with 1.2 milligrams per milliliter sodium phosphate, monobasic and 0.05 milligrams per milliliter sodium phosphate, dibasic (at time of manufacture) 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 54.7 percent I 123, not more than 4.9 percent I 124, and not more than 0.5 percent all others (1 125, I 126, I 130, Na 24, Te 121). The radionuclidic composition at expiration time is not less than 89.5 percent I 123, not more than 12.9 percent I 124, and not more than 1.6 percent all others. The ratio of the concentration of I 123 to I 124 changes with time.

**INDICATIONS AND USAGE:** Nephroflow 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 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.

The dose to the bladder wall will be reduced significantly if the patient is encouraged to void within 2 hours after the drug is administered. The dose to the other target organs will also be substantially reduced.

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 minimize radiation exposure to the patient consistent with proper patient management.

Radiotherapeutics 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, mutagenic potential, or effects on fertility in male or female animals.

**Pregnancy Category C**

Animal reproduction studies have not been conducted with this drug. It is also not known whether Iodohippurate Sodium I 123 I 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 capacity 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 is 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 1 123.

**HOW SUPPLIED:** Nephroflow is supplied in nominal 3.5 ml vials as a sterile, apyrogenic, aqueous, isotonic sodium chloride 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

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Time: 8:11 A.M.
Isotope: Tc—99m
Sample: 1
Activity: 798. mCi
Volume: 20.8 ml
Conc: 39.9 mCi/ml

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Time: 8:12 A.M.
Isotope: Tc—99m
Sample: 1
Dose: 5.88 mCi

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**Model**

<table>
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<tr>
<th>MODEL</th>
<th>FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccuSync-6</td>
<td>All AccuSync-5R features with the exception of the Strip Chart Recorder.</td>
</tr>
<tr>
<td>AccuSync-IR</td>
<td>All AccuSync-5R features with the exception of Digital CRT Monitor.</td>
</tr>
<tr>
<td>AccuSync-2R</td>
<td>All AccuSync-IR features incorporated into a Module designed to fit into certain Mobile cameras.</td>
</tr>
<tr>
<td>AccuSync-2M</td>
<td>All AccuSync-IR features with the exception of the Strip Chart Recorder, Playback Mode and Audio Indicator.</td>
</tr>
<tr>
<td>AccuSync-3</td>
<td>All Accu Sync-3 features with the exception of the Heart Rate/R R int. display.</td>
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<tr>
<td>AccuSync-4</td>
<td></td>
</tr>
</tbody>
</table>

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You are cordially invited to join
The Society of Nuclear Medicine

The Society of Nuclear Medicine (SNM) is a multi-disciplinary organization of physicians, physicists, chemists, radiopharmacists, technologists, and others interested in the diagnostic, therapeutic, and investigational use of radiopharmaceuticals. Founded in Seattle, Washington in 1954, it is the largest scientific organization dedicated to nuclear medicine.

The objectives of the Society are to:
Maintain an organization supported by professionals of varied backgrounds who have a common interest in the clinical and scientific discipline of nuclear medicine;
Hold meetings and seminars to communicate recently acquired knowledge and provide continuing medical education;
Advance the highest standards in the practice of nuclear medicine;
Disseminate information by means of journals, books, monographs, and audiovisuals;
Promote and maintain the highest standards of education and research.

Benefits of Membership

- Journals: 12 issues of *The Journal of Nuclear Medicine* (plus one year's subscription to *Journal of Nuclear Medicine Technology* at a reduced rate).
- Annual Meetings: discounts to scientific, clinical, and continuing education presentations.
- Publications: discounts on books, educational aids, and audiovisuals.
- Effective Government Relations: through committees and lobbying efforts.
- Local networking: with regional chapters and representation through the National Council.
- Awards: for outstanding achievements and contributions to the field.
- Research and Fellowship Support: through SNM Education and Research Foundation.
- Continuing Education Credit: for meeting courses, audiovisuals, and exhibits, approved for AMA Category 1 credit.

For more information, contact the Membership Department at:
The Society of Nuclear Medicine
136 Madison Avenue
New York, NY 10016
(212)889-0717
### Application for Membership

**Last Name** Dr, Mr, Mrs, Ms, Miss (CIRCLE ONE)

**First Name**

**Middle Initial**

---

**Check Degree(s) Earned:**
- MD
- PhD
- MA
- MS
- BA
- BS
- AA
- AS
- Other _______________________________

**Indicate Board Certification(s):**
- ABNM
- ABR
- ABP
- ABIM
- ABSNM
- ABHP
- NMTCB
- ASCP
- ARRT(N)
- ARRT(T)
- ARRT(R)
- Other _______________________________

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**Please check ONE box for preferred mailing address, but complete both columns for our files:**

- [ ] Institutional
- [ ] Home Address

**DIVISION**

**STREET ADDRESS**

**DEPARTMENT**

**CITY**

**INSTITUTION OR COMPANY**

**STATE/PROVINCE/COUNTRY**

**STREET ADDRESS**

**AREA CODE**

**CITY**

**PRESENT POSITION (TITLE)**

**STATE/PROVINCE/COUNTRY**

**ZIP CODE**

**DATE OF BIRTH**

---

**IN-TRAINING STATUS**
- [ ] YES
- [ ] NO

Program Director __________________________

Projected Completion Date: __________________________

**PROGRAM DIRECTOR'S TELEPHONE NO.**

---

**Would you like to join the TECHNOLOGIST SECTION?**
- [ ] Yes
- [ ] No

**COUNCIL MEMBERSHIP (OPTIONAL)**
- [ ] Academic Council
- [ ] Correlative Imaging Council
- [ ] Radioassay Council
- [ ] Cardiovascular Council
- [ ] Instrumentation Council
- [ ] Radiopharmaceutical Council
- [ ] Computer Council

---

**NAME OF SNM MEMBER WHO SUGGESTED THAT YOU JOIN (optional)**

**APPLICANT'S SIGNATURE**

**DATE**

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**FOR OFFICE USE ONLY**

- [ ] Full
- [ ] TS

**APPLICATION FEE**

- [ ] AM
- [ ] R

**CHAPTER**

- [ ] TM
- [ ] IT

**ACCOUNT #**

- [ ] AF

**CHAIRMAN, MEMBERSHIP COMMITTEE (sign)**

**TECHNOLOGIST SECTION DESIGNEE (sign)**
### Guide to Membership Dues—1986 and 1987

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- Society and Technologist Section chapter dues are additional and vary by chapter. A chapter dues table is available upon request.
- Council dues are an additional $5.00 per Council.
- Dues for those applicants joining during the year are prorated to January 1st.
To satisfy the needs of those individual disciplines within nuclear medicine, The Society of Nuclear Medicine has established special interest Councils that function autonomously within the Society and are open to all interested members.

**Academic Council**

The ACADEMIC COUNCIL is composed of faculty members of nuclear medicine departments, divisions, or sections in accredited nuclear medicine schools, or in those in AMA approved nuclear medicine residency programs in the U.S. or Canada. The objectives of the Council are: (1) to promote medical education, research, and patient care related to nuclear medicine; (2) to develop better methods of undergraduate and graduate teaching of nuclear medicine; and (3) to provide a forum for discussion of problems of mutual interest and concern, as well as an informal exchange of ideas and programs. Within the Council there is a subgroup of directors of nuclear medicine residency training programs who confer at least annually with the ABNM on areas of mutual interest.

**Computer Council**

The COMPUTER COUNCIL is made up of Society members who have an interest in computers and their application in the diagnostic, therapeutic, and investigative areas of nuclear medicine. It provides a source of information relating to computer science to the Society membership through its meetings and publications.

**Correlative Imaging Council**

The CORRELATIVE IMAGING COUNCIL provides a structure in which clinicians and scientists can develop and disseminate information on the medical and physiological applications of various imaging modalities as they correlate to nuclear medicine.

**Cardiovascular Council**

The CARDIOVASCULAR COUNCIL consists of Society members interested in the performance and application of cardiovascular nuclear medicine procedures. It seeks to provide a forum for discussion and development of cardiac scintigraphic methods in an effort to realize the most beneficial applications. The Council actively seeks individuals who share this goal.

**Radioassay Council**

The RADIOASSAY COUNCIL maintains the scientific, economic, and historic elements of the radioassay discipline within the Society.

**Radiopharmaceutical Science Council**

The RADIOPHARMACEUTICAL SCIENCE COUNCIL provides a forum for discussion and dissemination of information relating to the radiopharmaceutical sciences and promotes and encourages basic radiopharmaceutical research and development within the Society. It publishes a newsletter and holds periodic meetings on special subjects.

If you are interested in joining any or all of the Councils, please contact the Membership Department. The cost for 1986 Council membership is only $5.00 per council.

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Fundamentals of Nuclear Medicine

**EDUCATIONAL SERIES**

208 pp; 6 x 9" softcover
Publication Date: June 1984
$12.00 per copy

Edited by
Naomi P. Alazraki, MD
and Fred S. Mishkin, MD

*Contributors:* Manuel L. Brown, MD, Frederick L. Datz, MD, Leon S. Malmud, MD, Isaac C. Reese, PhD, Barry A. Siegel, MD, James A. Sorenson, PhD, Jeroy A. Sugarman, MD, Andrew T. Taylor, Jr., MD, Heidi S. Weissmann, MD, Henry N. Wellman, MD

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

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Classified Advertising

Positions Open

Physician

NUCLEAR MEDICINE PHYSICIAN wanted to join expanding cardiology office/hospital practice in the Los Angeles area. Must be ABNM certified or eligible, have post-training, and board certification in nuclear cardiology, SPECT, and diagnostic ultrasound. Send CV and references to: Box 1102, The Society of Nuclear Medicine, 136 Madison Ave., New York, NY, 10016-6784. EOE.

NUCLEAR MEDICINE PHYSICIAN. Position open in University Hospital for ABNM certified physician, interested in academic nuclear medicine. Ample opportunity for research and development work. Interest in radiochemistry/radiopharmacy appreciated. Please send resume to: D. Pavel, MD, M/C 549, University Hospital, 300 S. LaSalle, Chicago, IL 60608. EOE.

NUCLEAR MEDICINE PHYSICIAN. Opportunity at the assistant professor level in major northeaster university department. Successful candidate must be certified in radiology or internal medicine and board certified/eligible in nuclear medicine. Excellent clinical and research opportunity. Send CV to: Arnold M. Strasman, MD, Division of Nuclear Medicine, Dept. of Radiology, State University of New York, Health Science Center at Brooklyn, 450 Clarkson Ave., Box 1210, Brooklyn, NY 11203. EOE/AA Employer, DMC RC-0026.

ABNM CERTIFIED PHYSICIAN. Private practice position for recently certified physician with 2-3 years clinical and research experience in nuclear cardiology at an academic institution. Strong background in diagnostic medicine, biochemistry, physiology, and neurology required. Excellent teaching and research opportunity. Send CV with references to: Box 1001, Society of Nuclear Medicine, 136 Madison Ave., 8th Fl., New York, NY 10016-6784. EOE.

IMMEDIATE PHYSICIAN OPPORTUNITY to join growing nuclear medicine/diagnostic ultrasound group in South Florida. Special emphasis on cardiovascular nuclear medicine and echocardiography. Send CV to Drs. Gould & Block, 115 NW 14 St., Suite #1, Miami, FL 33136; (305)324-0424. EOE.

NUCLEAR MEDICINE PHYSICIAN. The Veterans Administration Medical Center, Seattle, Washington and the University of Washington School of Medicine are seeking a board certified or board eligible nuclear medicine physician at the assistant professor level. Strong interest and experience in research and teaching are essential, and computer and image analysis skills are desirable. The hospital is in a new facility with state-of-the-art imaging and computer systems and the professional staff includes a medical imaging physicist and computer programmer.

CLINICAL DIRECTOR OF NUCLEAR MEDICINE. The Johns Hopkins Medical Institutions, School of Medicine, is actively seeking candidates for the position of Clinical Director, university-based, research dedicated department of nuclear medicine. The applicant must demonstrate expertise in basic and/or clinical research and have the management skills necessary to direct all aspects of diagnostic clinical nuclear medicine. For further information, send CV and bibliography to: Dr. Lewis E. Brauerman, Chairman, Department of Nuclear Medicine, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, MA 01605. An Affirmative Action/Equal Opportunity Employer.

POSITION AVAILABLE. January 1, 1987 for nuclear radiologist with strong diagnostic radiology background to head nuclear medicine at a 400-bed medical school affiliated hospital. Nine person private practice. Strong opportunity for teaching and clinical research. 3,000 nuclear examinations per year including nuclear cardiology, thyroid therapy, and bone densitometry. ABR certification required, plus ABNM or special competence. Direct inquiries to: David Disanto, MD, 1288 Paramore Dr., Virginia Beach, VA 23454; (804)489-5422. EOE.

NUCLEAR MEDICINE PHYSICIAN with board certification in internal medicine or radiology needed for expanding outpatient imaging practice. Contact with CV to: I.M.C., Inc., 2040 W. Wisconsin Ave., Suite 378, Milwaukee, WI 53233; (414)933-8739. EOE.

Resident

RESIDENCY IN NUCLEAR MEDICINE. A 2-year ACGME approved program offering broad clinical and basic science experience. Two years prior postgraduate training in ACGME approved program is a requirement. The program is an integrated program involving nuclear, pediatrics and radiology training. Involvement in research.

The Nuclear Medicine Division of the University of Michigan Medical Center offers a two-year AMA approved residency program in nuclear medicine. The program offers both clinical training and research, and the division is committed to providing strong and extensive training in nuclear medicine. For further information & applications for July 1987, contact: M. Reza, MD, Chairman, Nuclear Medicine Division, Box 0028, U-M Hospital, Ann Arbor, MI 48109. Contact person: Louis B. Clark, (313)763-5401. A Non-Discriminatory/Affirmative Action Employer.

The Division of Nuclear Medicine of the Department of Medicine at North Shore University Hospital offers a 2-year residency in nuclear medicine. North Shore University Hospital is a private teaching hospital of the Cornell University Medical College. The program is comprehensive with training in all aspects of diagnostic nuclear medicine and therapy. There is strong emphasis on measurements of physiologic parameters and thyroidology, cardiology, and nephrology. A PET-CYCLOTRON facility is under development and will add to the scope of the residency program. Inquiries may be addressed to: D. Margonelli, MD, Chief, Division of Nuclear Medicine, North Shore University Hospital, 300 Community Dr., Manhasset, NY 11030. An Equal Opportunity Employer.

NUCLEAR MEDICINE AND NUCLEAR CARDIOLOGY. The University of Minnesota, University of Minnesota Hospitals, and Clinics have positions available July, 1987, Emory University Affiliated Hospitals. This comprehensive, ABNM certified training program is based at the Emory University Affiliated Hospitals, which include Emory University Hospital, a 650-bed tertiary referral center; Grady Memorial Hospital, a 1,100-bed county teaching hospital; The Henrietta Egleston Hospital for Children, a 176-bed dedicated pediatric center; and the Atlanta VA Medical Center with 500 beds.

A nuclear medicine learning center is located at Emory Hospital. The staff includes eight nuclear medicine physicians and six basic scientists. The trainee's experience encompasses a wide range of general nuclear medicine procedures, with emphasis on SPECT, cardiovascular studies, computer processing, and NMR. A didactic program includes lectures and laboratory exercises in clinical and basic science, radiopharmacy, radiology, and computer processing. Involvement in research is strongly encouraged. Address applications and inquiries to: Dr. Naomi Argrekar, Director of Nuclear Medicine, Emory University Hospital, 1364 Clifton Road, N.E., Atlanta, GA 30322. An Equal Opportunity/Affirmative Action Employer.

Technologist

NUCLEAR MEDICINE TECHNOLOGIST. Come to the gateway to beautiful northern Wisconsin! Wausau Hospital Center, a new 300-bed, full service, accredited, acute care, regional trauma center, is accepting applications for nuclear medicine technologists. Requires: ACR registry or registry eligible in nuclear medicine or medical registry or licensure related field. Prefer clinical experience in nuclear medicine. Excellent salary and benefits! Act now! Call collect or send resume to: Personnel Services, Wausau Hospital Center, 333 Pine Ridge Blvd., Wausau, WI 54401; (715)647-2800. Equal Opportunity Employer E/M.

NUCLEAR MEDICINE TECH. Full-time position available for an aggressive self-motivated person to assume staff position. Requirements: Registry or registry eligible and must have Wisconsin license. Excellent starting salary and benefit package. Send resume to: Florida Medical Center, 5000 W. Oakland Park Blvd., Ft. Lauderdale, FL 33313. An Equal Opportunity Employer.

NUCLEAR MEDICINE TECHNOLOGIST. A challenging and rewarding career opportunity awaits you in the heart of the beautiful Montana Rocky Mountains. St. James Community Hospital is a 275-bed, JCAH accredited acute care hospital located halfway between Glacier and Yellowstone National Parks. Immediate access to hiking, fishing, skiing, hiking, and other outdoor recreation is available for the sports enthusiast. Qualified candidates for the position must be ARRT (N) registered and also be registered or certified (CNMT) in nuclear medicine. Excellent salary and benefits accompany this posi-

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NUCLEAR MEDICINE PHYSICIAN

Responsibilities include the planning, development and implementation of major clinical research programs, contributing to the introduction of diagnostic blood tests and radiotherapeutics. Design of clinical protocols, selection of clinical investigators and ensuring compliance with regulations and scientific protocols are important aspects of the position. Further responsibilities include direct interaction with the organizations immunologists, toxicologists, pharmacologists, and biostatisticians in the preparation of regulatory agency submissions, scientific publications, and technical support of company research programs. Position requires research experience in cardiac imaging, oncoligic nuclear medicine, immunology, or radiotherapeutics development and provides the opportunity to pursue academic and clinical activities. Applicants must hold an M.D. or M.D./Ph.D. degree, be board certified or eligible in nuclear medicine and/or nuclear radiology, and have administrative experience, as well as proven experience in clinical research.

SENIOR NUCLEAR MEDICINE TECHNOLOGIST
CLINICAL RESEARCH ASSOCIATE

Participate in all aspects of new drug research, including the development, design, initiation, and monitoring of clinical trials. Work closely with leading nuclear medicine departments in the implementation of clinical trials involving radiolabeled monoclonal antibodies. At least three years experience in clinical research and/or senior applications support desired. Experience in nuclear cardiology, oncoligic nuclear medicine, and/or monoclonal antibody research highly desirable. Willingness to travel and work independently are important characteristics.

Apply with curriculum vitae indicating the position desired to:

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SASKATOON CANCER CLINIC

Applications are invited to fill a new position for a physicist in the Saskatoon Cancer Clinic. The work involves radiation physics, research and development, quality control and maintenance associated with cancer therapy. A PhD in a relevant subject such as medical physics, nuclear physics, or radiation biology is required.

A new clinic to serve 2,700 new patients per year will open in September, 1987 and will have three linear accelerators, Co-60, a simulator, a VAX 11/750 computer and many accessories for radiation therapy. It will include a physics lab, machine shop, and electronics shop and facilities for biological research. This physicist will report to the head of radiation oncology physics and will work with a group of medical physicists with a wide range of interests. Qualified physicists hold academic appointments in the College of Medicine, University of Saskatchewan, and may supervise graduate students in medical physics or clinical engineering.

For details, please contact:
Dr. W.B. Reid
Chief Medical Physicist
Saskatoon Cancer Clinic
37 University Hospital
Saskatoon, Saskatchewan
S7N 0X0
(306)966-2696

ATTENTION SNM MEMBERS

new clubs are seeking active members to join in the petition for Council status.

Brain Imaging Council—the proposed council will offer specialists the opportunity to have a forum for discussion and rapid dissemination of information pertaining to brain imaging. It hopes to establish international educational scientific programs to examine current investigations.

Commercial Services Council—the proposed council will be opened to all individual members to provide a forum for those individuals who wish to share information and experience about the commercial aspects of nuclear medicine. It hopes to create an educational arena to assist others entering into business, whether it be industry or private practice.

To receive a copy of either petition, please write indicating council of choice to:
Membership Department, The Society of Nuclear Medicine, 136 Madison Avenue, Dept. 1186J, New York, NY 10016-6784, (212)889-0717.

CEDARS-SINAI MEDICAL CENTER

DIRECTOR
NUCLEAR MEDICINE PHYSICS

CEDARS-SINAI, 1120 bed research, teaching and acute care Medical Center is seeking a Director of Nuclear Medicine Physics. Candidates should have a PhD in either physics, computer sciences or a closely related field, with experience in image processing and preferably in the field of nuclear medicine or nuclear cardiology, although this is not required. The position will be working in image processing with an internationally recognized and well-funded nuclear cardiology team, and will also involve research in Cardiac Magnetic Resonance Imaging. Cedars-Sinai is the largest and most comprehensive not-for-profit medical center in the WEST. We offer a superior salary and benefits program and superb opportunity for career advancement. Send resume in confidence to: Mr. John Gilbert, Employment Office, 8723 Alden Drive, Los Angeles, California 90048. (213) 855-5521.

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

GLENN E. CHAPMAN
Executive Director
Brandon General Hospital
150 McTavish Avenue East
BRANDON, Manitoba R7A 2B3
NUCLEAR MEDICINE TECHNOLOGIST

IMMEDIATE opening for full-time, registered nuclear medicine technologist at a progressive 675-bed acute care teaching hospital located in the beautiful Blue Ridge Mountains of Virginia. Must be experienced with all types of imaging, MDS computer system, and nuclear cardiology. No RIA necessary. Competitive salary and excellent benefits package, including dental insurance. Send resume with work experience to: Mrs. Linda Hubbard, CNMT, Nuclear Medicine, Roanoke Memorial Hospitals, P.O. Box 13367, Roanoke, VA 24033. EOE—M/F.

NUCLEAR MEDICINE RESIDENCY
(2 years)
and FELLOWSHIP (1 year)
positions available for 1987-88, 2,000+ bed medical center state-of-the-art planar and tomographic equipment. Strong programs with cardiology, oncology, Active monoclonal antibody program. Ample opportunity to advance. Submit C.V. to Michael E. Siegel, M.D., Director Nuclear Medicine, LAC/USC Medical Center, 1200 N. State Street, Los Angeles, CA 90033.

LAC/USC Medical Center is an Equal Opportunity Employer

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NUCLEAR MEDICINE TECHNOLOGIST

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

Employment Office
PITT COUNTY MEMORIAL HOSPITAL
P.O. Box 8028
Greenville, NC 27834
(919) 757-4556
EOE/AA
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Prices are in U.S. dollars and are subject to change without notice. $20.00 minimum on credit cards.

Form of payment enclosed: □ Cash □ Check □ Institutional Purchase Order □ Travelers Check

VISA ___________________ MasterCard ___________________ Expiration Date _______ Signature _______________________

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<td>Robertson et al.: MIRD Primer for Absorbed Dose Calculations, 1986</td>
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<td>$12.00</td>
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<td>Brill: Low-Level Radiation Effects: A Fact Book 1982</td>
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**Parametric Gammascope**
A&P Gruppe-Altman KG has introduced the parametric gammascope, a mobile diagnostic apparatus for measuring heart, kidney, and thyroid function. To measure absolute cardio-pulmonary circulation times, the patient may be seated or prone, or the test may be done during exercise. The apparatus also measures by beat-to-beat methods and the gated blood-pool method. For renal studies the gammascope can be used to measure glomerular filtration rates and perfusion of kidney transplants. The parametric gammascope may be used for hematologic studies, evaluation of radioimmunoassays, thyroid diagnostics, and for the storage and handling of patient data. Developed at the Institute of Medicine of the Nuclear Research Center, Julich, West Germany, the gammascope may be used directly at the patient’s bedside or for different analytic procedures in the laboratory. A&P Gruppe-Altman KG, Albert-Schweitzer-Str. 18, D-3320 Salzgitter, West Germany.

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Bruker Instruments has introduced an NMR accessory for high-resolution microscopic imaging. The accessory, also called the “NMR microscope,” is designed for Bruker wide-bore AM and MSL systems, and requires virtually no modification of the standard spectrometer.

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**Bone Mineral Analysis for CT Scanners**
Elscint has announced its clinical evaluation of a Bone Mineral Analysis System now available for its EXEL 1800 and 2400 CT scanners. The system measures the trabecular bone in the lumbar spine and can assist in the detection of metabolic bone disease and osteoporosis.

The clinical procedure consists of a localizing planar scan and a set of axial lumbar spine scans using a low dose scan protocol optimized for bone mineral analysis. The clinical images are compared quantitatively to calibration images acquired using a reference phantom containing different, stable known densities of calcium hydroxyapatite. Elscint Inc., 930 Commonwealth Ave., Boston MA 02215.

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