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

20 Sizes
TECHNETIUM Tc 99m GENERATOR for the Production of Sodium Pertechnetate Tc 99m

DESCRIPTION: The Technetium Tc 99m Generator is prepared with fissile produced Molybdenum Mo 99 absorbed on alumina in a lead-shielded column and provides a means for obtaining sterile pyrogen-free solutions of Sodium Pertechnetate Tc 99m in sodium chloride injection. The eluate should be crystal clear. With a pH of 4.5-5.5, hydrochloric acid and/or sodium hydroxide may have been used for pH adjustment. Over the life of the generator, an elution will contain a yield of 80% to 100% of the theoretical amount of Technetium Tc 99m available from the Molybdenum Mo 99 on the generator column.

Each eluate of the generator should not contain more than 0.5 microcurie of the Molybdenum Mo 99 per milliliter of Tc 99m per administered dose at the time of administration, and not more than 10 micrograms of aluminum per milliliter of the generator eluate, both of which must be determined by the user before administration.

Since the eluate does not contain an antimicrobial agent, it should not be used after twelve hours from the time of generator elution.

INDICATIONS AND USE: Sodium Pertechnetate Tc 99m is used in ADULTS as an agent for: brain imaging including cerebral radionuclide angiography; thyroid imaging; salivary gland imaging; pleura localization; blood pool imaging including radionuclide angiography; and urinary bladder imaging (direct isotopic cystography) for detection of vesico-ureteral reflux.

Sodium Pertechnetate Tc 99m is used in CHILDREN as an agent for: brain imaging including cerebral radionuclide angiography; thyroid imaging; blood pool imaging including radionuclide angiography; and urinary bladder imaging (direct isotopic cystography) for the detection of vesico-ureteral reflux.

CONTRAINDICATIONS: None known.

WARNINGS: Radiation risks associated with the use of Sodium Pertechnetate Tc 99m are greater in children than in adults. In general, the younger the child the greater the risk owing to greater absorbed radiation doses and longer life expectancy. These greater risks should be taken fully into account in all benefit-risk assessments involving children.

PRECAUTIONS: As in the use of any radioactive material, care should be taken to minimize radiation exposure to the patient consistent with proper patient management and to ensure minimum radiation exposure to occupational workers.

Pregnancy Category C

Animal reproductive studies have not been conducted with Technetium Tc 99m. It is also not known whether Technetium Tc 99m can cause fetal harm when administered to a pregnant woman or can affect reproductive capacity. Technetium Tc 99m should be given to a pregnant woman only if the expected benefits to be gained clearly outweigh the potential hazards. Ideal examinations using radiopharmaceuticals, especially those effective in nature, of a woman of childbearing capability should be performed during the first few (approximately 10) days following the onset of menses.

Nursing Mothers

Technetium Tc 99m is excreted in human milk during lactation, and therefore formula feedings should be substituted for breast feedings.

Pediatric Use

See INDICATIONS AND USE, DOSAGE AND ADMINISTRATION. See also description of additional risk under WARNINGS. Radiopharmaceuticals should be used only by physicians who are qualified by training and experience in the safe use and handling of radionuclides, and whose experience and training have been approved by the appropriate government agency authorized to license the use of radionuclides. The generator should not be used after 16 days from the date and time of calibration.

At time of administration, the solution should be crystal clear.

ADVERSE REACTIONS: Allergic reactions including anaphylaxis have been reported infrequently following the administration of Sodium Pertechnetate Tc 99m.

NOW SUPPLIED: Sodium Pertechnetate Tc 99m is supplied as a Molybdenum Mo 99/Technetium Tc 99m generator in sizes from 1000 millicuries up to 16,000 millicuries (in approximately 1000 millicurie increments) of Molybdenum Mo 99 as of 10:00 P.M. Eastern Time of the day of calibration. The TECHNETIUM Tc 99m GENERATOR consists of:

1) sterile generator; 2) Sodium Chloride injection source; 3) 10 cc sterile evacuated vials; 4) sterile reactions; 5) elution vial sealant; 6) finished drug labels. Elution vials in 5 cc and 20 cc sizes are available upon request.

Initial order only.

The TECHNETIUM Tc 99m GENERATOR should not be used after sixteen (16) days from the date and time of calibration.

For multiple use, the eluate should be used within 12 hours of the generator elution time. If the eluate is used to reconstitute a kit, the radiolabeled kit should not be used after 12 hours from the time of generator elution or 6 hours after reconstitution of the kit, whichever is earlier.

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- Processing Techniques
- Clinical Applications

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*“Slide Courtesy of Robert G. Schiff, MD. Division of Nuclear Medicine, Long Island Jewish Medical Center, New Hyde Park, NY*
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With our commitment to offering only the very best educational resources available in nuclear medicine, we feel that this meeting will be our finest to date.

SCIENTIFIC PAPERS

This year's presentation of over 600 scientific papers includes a distillation of the latest advancements and finest work achieved by outstanding scientists and physicians in the field of nuclear medicine. These papers, presented by the original authors, with over 30 subjects to choose from, will provide a unique opportunity for enhancing your knowledge or exploring new avenues in correlative areas of nuclear medicine. Ample time is allotted at these presentations for questions and discussions.

An extensive display of scientific posters and exhibits will augment the presentations.

CONTINUING EDUCATION COURSES

Refresher and state-of-the-art continuing education courses in chemistry, physics, quality assurance, cardiovascular nuclear medicine, PET, SPECT, and NMR will supply up-to-the-minute approaches and procedures for all clinical settings.

TECHNOLOGIST PROGRAM

The ever-increasing importance of the role of the nuclear medicine technologist will be explored in our Technologist Program, and over 70 hours of clinical updates will provide chief and staff technologists with the latest in basic, intermediate, and advanced studies. This program will broaden expertise and enhance the technologist's contributions to nuclear medicine.

EXPOSITION

More than 100 pharmaceutical and equipment manufacturers will display their latest products in a lively atmosphere. These knowledgeable commercial representatives offer the technical depth our field demands, and they are valuable sources of timely and pertinent information.

AUDIOVISUALS, BOOKS, JOURNALS

The Society of Nuclear Medicine is continually adding to its library of audiovisuals, books, and other publications. A stop at the publications booth is well worth the time. Here you will find on display what the society has to offer for year-round educational advancement.

Networking opportunities and job referral boards are available at special locations throughout the meeting as well as membership information at our membership booth.

Registration: $120 US, $162 CAN SNM members
         $215 US, $290 CAN nonmembers

Hotels: $89 US average rate/night

If you need further information, please contact:

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ATTENTION SNM MEMBERS

2 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. 287/C, New York, NY 10016-6760. (212)889-0717.
Mallinckrodt continues to offer Dollar Power savings of up to 30% on top-line nuclear medicine equipment and services. Purchase your radiopharmaceuticals direct from Mallinckrodt or through Diagnostic Imaging Services, and qualify for valuable discount certificates redeemable for top-line equipment or services for your nuclear medicine department.

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- NMA Medical Physics Services
- Nuclear Associates
- Nuclear Medicine Consulting Firm
- Viox Corporation

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Albert Schweitzer

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IN CONJUNCTION WITH THE 13TH ANNUAL MEETING OF THE ACNP

SPECT '87

Practical advice on a New Technology
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NOW FOR THE WEST COAST

The enormously successful SPECT symposium that was presented in September at the ACNP Interim Meeting is being brought to you by popular demand. For two intense strategy-packed days, you'll consult the experts for practical, nuts-and-bolts advice you can use immediately to know:

- How SPECT fits in Clinically
- What Current SPECT Instrumentation is Available
- How to Purchase a SPECT Camera
  - What the Clinician Needs
  - What the technologist Needs
- What Purchasing Strategies Work
- What are the Basics of Quality Assurance
- How the Algorithms Work
- What is the influence of Attenuation and Uniformity Correction
- How to Position Patients and Set Up the Equipment
- How to Recognize the Technical Artifacts
- How to Apply to Orthopaedics
- How to Use SPECT Rotating Displays
- How to Apply SPECT to Cardiac Imaging
- How to use Gallium-67 and the SPECT Camera
- How to Perform Functional and Dynamic SPECT Brain Imaging

DATE AND LOCATION

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Hotel reservation requests received after January 19, 1987 at the $120.00 room rate cannot be guaranteed or honored if the Hotel is sold out.

SPECT LUNCHEON

There will be a luncheon for symposium attendees on both days of the meeting to give everyone time to relax and meet with colleagues. If you would like to attend one or both of the luncheons, please check the appropriate box on the registration form.

14 HRS. AMA CATEGORY 1 CREDIT
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AND THAT’S NOT ALL

You'll hear the experts individually and as a panel, have plenty of time for questions and answers. You'll consult, question, and take advantage of the expertise of more than eleven nationally recognized experts in SPECT technology. At the luncheon and the wine and cheese reception, you can meet the experts informally.

For more information, please contact the ACNP, 1101 Connecticut Avenue, N.W., Suite 700, Washington, DC 20036 (202) 857-1135.
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National Nuclear Medicine Week will be celebrated by nuclear medicine professionals across the country during the week of July 27–August 2, 1987. Sponsored by The Society of Nuclear Medicine and Technologist Section, National Nuclear Medicine Week has been developed to heighten public awareness of the progress nuclear medicine has made in the diagnosis and treatment of disease.

YOUR SUPPORT IS NEEDED in promoting National Nuclear Medicine Week. The Society has prepared a set of guidelines for promoting the Week in your local area. We will also have posters, buttons and stickers available for your hospital to purchase. Price lists for these items will be available shortly.

If you are interested in obtaining a set of guidelines and/or purchasing any promotional materials, please contact:

Virginia M. Pappas, CAE
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HE PROBLEM:
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HE PROBLEM:
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HE SOLUTION:
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**AccuSync-4**

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

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

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

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

ADVANCED MEDICAL RESEARCH

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Circle Reader Service No. 20
The Society of Nuclear Medicine 34th Annual Meeting
Tuesday, June 2–Friday, June 5, 1987 • Metro Toronto Convention Centre • Toronto, Ontario, Canada

Call for Works-in-Progress

The 1987 Scientific Program Committee solicits the submission of abstracts from members and nonmembers of the Society of Nuclear Medicine for the 34th Annual Meeting in Toronto, Ontario, Canada. Abstracts accepted for Works-in-Progress will be published in a separate on-site handout that will be distributed to all those who attend the meeting. Original contributions on a variety of topics related to nuclear medicine will be considered, including:

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<td>Infectious Disease and Immunology</td>
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Authors seeking publication for the full text of their papers are strongly encouraged to submit their work to the JNMT for immediate review.

A complete educational program for technologists will be offered and technologists are encouraged to submit abstracts of their work for consideration.

The official abstract form for Works-in-Progress may be obtained from the October 1986 issue of the JNMT or by calling or writing:

The Society of Nuclear Medicine
Att: Abstracts
136 Madison Avenue, New York, NY 10016-6760
Tel: (212) 889-0717

Deadline for Works-in-Progress is Thursday, April 9, 1987.

The Society of Nuclear Medicine 34th Annual Meeting
Tuesday, June 2–Friday, June 5, 1987 • Metro Toronto Convention Centre • Toronto, Ontario, Canada

Call for Works-in-Progress Technologist Program

The 1987 Scientific and Teaching Sessions Committee solicits the submission of abstracts from members and nonmembers of the Society of Nuclear Medicine for the 34th Annual Meeting in Toronto, Canada. Abstracts accepted will be published in the June issue of the Journal of Nuclear Medicine Technology. Original contributions on a variety of topics related to nuclear medicine will be considered, including:

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Authors seeking publication for the full text of their papers are strongly encouraged to submit their work to the JNMT for immediate review.

The official abstract form for Works-in-Progress may be obtained from the October 1986 issue of the JNMT or by calling or writing:

The Society of Nuclear Medicine
Att: Abstracts
136 Madison Avenue, New York, NY 10016-6760
Tel: (212) 889-0717

Deadline for receipt of Works-in-Progress is Thursday, April 9, 1987.
The Society of Nuclear Medicine's library of continuing medical education programs covers a wide variety of topics that are important to today's nuclear medicine practitioner. All are approved for credit hours in Category I.

The programs listed to the right are just a few of the many audiovisuals that were produced from lectures given at the 1986 Annual Meeting, and are all available on 35mm slides with a synchronized audiocassette lecture. Most are also available on VHS, Beta and 3/4" videotape formats.

To order or for more information, write or call:

SNM Audiovisuals
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Chicago, IL 60611-0307
(312) 943-0450

Circle Reader Service No. 22

LABORATORY MANUAL for Nuclear Medicine Technology

Edited by Wanda M. Hibbard, CNMT, and Sue P. Lance, CNMT

In response to a need for standardizing the learning experiences of student technologists, the Laboratory Manual for Nuclear Medicine Technology has been prepared for nuclear medicine technology training programs. The exercises were written by educators with years of experience in their respective areas of expertise and were field tested by technologists in nuclear medicine schools—both instructors and students.

This manual will serve to enhance the student's knowledge of a standard curriculum and develop competency in clinical practice. It provides the most comprehensive training resource available to be used in a laboratory setting. In addition, this manual will aid residents in fulfilling the NRC requirements for licensure.

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

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Positions Open

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NUCLEAR PHYSICIAN. Beth Israel Hospital, Harvard Medical School seeks an ABNM-certified eligible physician for academic junior staff. We have an all digital department with two SPECT instruments and active radiochemistry, molecular biology, computer, and computerized medicine research programs. Send resumes to: Gerald M. Kolotkin, MD, Division of Nuclear Medicine. Beth Israel Hospital, 330 Brook-lyn Ave., Boston, MA 02215; (617)735-2071. EOE.

Resident
RESIDENCY IN NUCLEAR MEDICINE. A 2-year ACGME approved program offering broad clinical and basic science experience. Two years prior post-graduate training in ACGME approved program is a requirement. The program is an integrated program involving tertiary care, oncology, and pediatric experience, with exposure to marrow and imaging, and research opportunities. Program also provides opportunity for exposure to MRI, CT, and ultrasound. The program is an integrated program of the State University of New York at Buffalo School of Medicine. Positions available July 1, 1987. Contact J.A. Prezzo, MD, Chairman and Program Director, SUNY/B, VMC Building 5, 3495 Bailey Ave., Buffalo, NY 14215.

NUCLEAR MEDICINE RESIDENCY available in both first and second year positions at St. Luke's Hospital, Milwaukee, WI. St. Luke's is a large, 450-bed tertiary care community hospital and is the sixth largest cardiac care center in the U.S. As such, the program is particularly strong in nuclear cardiology and SPECT Current program includes a gamma camera, four of which are SPECT cameras. Staff includes two nuclear medicine physicians, a pharmacist, a physicist, and a nuclear medicine technologist. Rotations in MRI will be available according to interest. Residents are required to write one paper per year. Applications, without exception, have completed 2 years in an American or Canadian residency to be considered for this program. Address applications and inquiries to: Dr. Don Spiegelholz, Director of Nuclear Medicine, St. Luke's Hospital, 2900 West Oklahoma Ave., Milwaukee, WI 53225. EOE.

Fellowship
NUCLEAR MEDICINE/MAGNETIC RESONANCE FELLOWSHIP. The Department of Radiology at the University of Texas Health Science Center at Dallas is offering a 1- or 2-year fellowship to begin July 1, 1987 to include training in nuclear medicine and magnetic resonance imaging. Strong emphasis is placed on biologic and computerized image interpretation and quantification as well as correlation with other diagnostic modalities. Applicants must have completed a minimum of 2 years in an accredited diagnostic radiology residency program and have demonstrated an interest in research. Previous fellowship experience or MD/PhD desired but not required. Send CV to: William A. Erdman, MD, Director, Nuclear Medicine and Body MR Research, Department of Radiology, University of Texas Health Science Center at Dallas, 3323 Harry Hines Blvd., Dallas, TX 75235. An Affirmative Action/Equal Opportunity Employer.

Technologist
NUCLEAR MEDICINE TECHNOLOGIST. Nuclear medicine technologist needed for 338-bed hospital located in the medical center of the South Plains. Must be a graduate of an approved nuclear medicine program and currently registered or registry eligible. Will perform nuclear medicine procedures using ADAC ARC 3000 camera with DFS 33000 computer. Contact: Human Resources Department, St. Mary of the Plains Hospital, 4000 24th St., Lubbock, TX 79410, (806)796-6673.

NUCLEAR MEDICINE TECHNOLOGIST. Staff technologist experienced with computerized cardiac studies, tomography, and general nuclear medicine procedures. Require completion of AMA approved nuclear medicine technology training program with 1 year's experience. Competitive salary and good benefits. Apply to Personnel Director, Sacred Heart Hospital, 400 Seton Dr., Cumberland, MA 21502. For more information, contact Administrative Manager of Radiology, (301)759-5010. EOE.

NUCLEAR MEDICINE/RADIOLOGIC TECHNOLOGIST. St. Joseph, a progressive 136-bed acute-care hospital located in the northwest corner of Washington State is currently accepting resumes for a full-time nuclear medicine/radiologic technologist. The qualified applicant will possess experience in CT or X-ray, a dual registry in nuclear medicine, X-ray-CMRT, and CRRT certification and a minimum of 3 years experience in this field. This position also offers highly competitive salary and excellent benefits. Qualified applicants please submit resume to: St. Joseph Hospital, 2901 Squalicum Parkway, Bellingham, WA 98225-1898, (206)734-5040, ext. 2540. EOE.

NUCLEAR MEDICINE TECHNICIAN. VA Medical Center, Palo Alto, CA, Opportunity for challenging position in state-of-the-art department actively affiliated with Stanford University Medical School. Please call collect: (415)858-3951, Attn: P.L. Whitefield. EOE.

Radiopharmacist
RADIOPHARMACIST. VA Medical Center, Long Beach CA is recruiting for a radiopharmacist in nuclear medicine service. Applicants must have demonstrated experience and training in compounding, preparation, quality control, dispensing, and disposal of all radiopharmaceuticals used in nuclear medicine service; demonstrated ability to develop independent research programs and to participate in collaborative research. Send CV, bibliography, and names of three suitable references to: Richard Clark, Personnel Service, VA Medical Center, 9001 E. Seventh St., Long Beach, CA 90822. The VA is an Equal Opportunity Employer.

RADIOPHARMACIST. Nuclear medicine division of Dept. of Radiology of Hospital—Cornell Medical Center is seeking a qualified individual, experienced in the area of radiopharmacy operation. Background in research, chemistry, teaching, and related radiation safety important for ex-panding department in new facility. Call: Dr. David V. Becker, (212)472-4758 (collect), and send CV to 525 E. 68th St., New York City, NY 10021. EOE.

Continuing Education

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Nuclear Medicine Technologists at the Washington Hospital Center are vital members of a specialized healthcare team. You will be involved in in-service training programs, evaluating new products and equipment, reviewing calibrations, patient dosage records and safety protocols.

If you possess an Associate degree in Nuclear Medicine and are registered by the NMTCB/AART or registry eligible, send resume with salary requirement to Arminta Foushee-Green, Employment Specialist, or call 1-800-432-3993 for further information. THE WASHINGTON HOSPITAL CENTER 110 Irving Street, N.W. Washington, D.C. 20010

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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 obtain 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 6028
Greenville, NC 27834
(919) 757-4556
EOE/AA

NUCLEAR MEDICINE TECHNOLOGIST

St. John's Regional Health Center, an 886-bed, acute-care facility, has a full-time opening. The applicants should have recent training. BA degree is preferred. Experience and competence in SPECT, data processing, and cardiovascular nuclear medicine is required. On-call rotation is also required. We offer a competitive salary and excellent benefits package. Qualified applicants should call collect or send resume to: Jerri Flikkema, Personnel Interviewer.

ST. JOHN'S REGIONAL HEALTH CENTER
1235 E. Cherokee, Springfield, MO 65804
(417) 885-2946
EOE M/F/H

REGISTERED TECHNOLOGIST

Trinity Lutheran Hospital, a 300-bed acute care facility in Kansas City, MO, seeks a full-time registered or registry-eligible technologist (ARRT/CNMT).

If you would like to apply your knowledge and skills in a quality oriented hospital, this position may interest you. One year previous experience preferred.

Computer knowledge desired.

Please send resume to: Trinity Lutheran Hospital, Karyn Smith, Personnel Representative, 3030 Baltimore Ave., Kansas City, MO 64108, or call (collect) (816) 753-4600, ext. 2080.

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Our Nuclear Medicine Department is seeking registered or registry eligible Nuclear Medicine Technicians. Experience with routine imaging, computer imaging and wet lab work is preferred.

Presbyterian provides competitive salaries; generous benefits, including on-site child care and physical fitness facilities and tuition reimbursement; and the opportunity for career development. Qualified applicants may submit resumes or letters of interest in confidence to: Robin Kilpatrick, Recruiting Office, PRESBYTERIAN HOSPITAL OF DALLAS, 8200 Walnut Hill Lane, Dept. 2797, Dallas, Texas 75231 (214) 696-7863.

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Essential References

MAGNETIC RESONANCE IN MEDICINE
Official Journal of the Society of Magnetic Resonance in Medicine

EDITOR-IN-CHIEF
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University of Florida, Gainesville

Magnetic Resonance in Medicine is an international journal devoted to the publication of original investigations concerned with all aspects of the development and use of nuclear magnetic resonance and electron paramagnetic resonance techniques for medical applications. Research areas include clinical studies, biochemistry, biophysics, chemistry, computing, engineering, mathematics, physics, and physiology.

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RADIATION RESEARCH
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The preeminent journal in the radiation sciences, Radiation Research includes original articles on the physical, chemical, and biological effects of radiation and related subjects in the areas of physics, chemistry, biology, and medicine. The term radiation is used in its broadest sense and specifically includes ionizing radiation and ultraviolet, visible, and infrared light, as well as microwaves, ultrasound, and heat. Radiation Research provides objective evaluations of the impact of radiation on people and the environment.

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Volume 28 • Number 2 • February 1987
EUROPEAN NUCLEAR MEDICINE CONGRESS 1987
Budapest, Hungary • August 24–28, 1987

The New Trends and New Possibilities in Nuclear Medicine

The Society of Nuclear Medicine—Europe • 25th Meeting
The European Nuclear Medicine Society • 10th Meeting
The Hungarian Nuclear Medicine Society • 5th Meeting

SCIENTIFIC PROGRAM

Original contributions on a variety of topics related to nuclear medicine will be considered for inclusion in the scientific program. They are:

• Basic Research: Physical science; Emission computed tomography, (SPECT and PET); Nuclear magnetic resonance; Instrumentation; Image processing—artificial intelligence; Personal computers—computer networks; Quality control.
• Pharmacology: Radiopharmaceutical chemistry; New radiopharmaceuticals; New radioimmunoassays; Quality control in radiopharmacology; Dosimetry; Radiation risks.
• Clinical Application: Bone/joint diseases; Circulation; Endocrinology; Gastroenterology; Hematology; Cardiology; Immunoscintigraphy; Nephrology; Neurology; Pediatrics; Pulmonary diseases; Therapy; Thyroid diseases.

Call for Abstracts: Official Abstract Forms may be obtained by writing to: Prof. L. Csernay, Institute of Nuclear Medicine, University Medical School, H-6720 Szeged, Korányi fasor 8, Pk. 469, Hungary. Telephone: 00–36–62–11170. The Deadline for the Receipt of Abstracts is March 10, 1987.

EXHIBITION
A comprehensive exhibition of equipment and radiopharmaceutical manufacturers will be on display.

SOCIAL PROGRAM
An elaborate social program has been planned including: a concert in the Congress Palace of Budapest, wine-and-cheese welcoming party; evening in the Castle of Buda, featuring renowned opera singers, organ music, and a reception in the National Gallery; banquet and dance; farewell luncheon; and the first European Nuclear Medicine Tennis Championship.

Registration: Members of the Society of Nuclear Medicine—Europe (SNME), of the European Nuclear Medicine Society (ENMS), and of the Hungarian Nuclear Medicine Society (HNMS) will be admitted free of charge. Registration fee for all others is: 210 Swiss francs by June 20, 1987, and 300 Swiss francs after June 20, 1987.

Travel Arrangements: Garber Travel, the officially appointed U.S. agent for the SNM in the coordination of travel arrangements to the European Nuclear Medicine Congress, will offer the lowest possible fare and hotel accommodations in Budapest. Garber has agreed to receive Congress Registrations in U.S. dollars for all registrants who are booking both air and land arrangements. Call Toll-Free from outside Massachusetts 1-800-225-4750 or (617) 787-0600. Ask for Nuclear Medicine Congress Desk. For detailed information contact: GARBER TRAVEL, P.O. Box 404—Dept. 91-7023, Brookline, MA 02146.

Mailing address for payment and further information: Prof. L. Csernay, Institute of Nuclear Medicine, H-6720 Szeged, Koranyi fasor 8, Pk. 469, Hungary. Telephone: 00–36–62–11170.

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The Journal of Nuclear Medicine
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There are preset isotope settings for 3H, 14C or 32P. The Micromedic® racks contain 12 standard or 16 miniscintillation vials. When loaded on the deck, the Taurus LSC has a capacity of up to 300 standard or 464 mini-scintillation vials, or a combination of both. ICN Micromedic Systems, Inc., 102 Witmer Rd., Horsham, PA 19044.

Circle Reader Service No. 101

Cadmium Telluride Detector

The cadmium telluride (CdTe) detector is a compact, sensitive, room-temperature gamma-ray sensor made from a new semiconductor material. CdTe provides high-efficiency detection of radiation without the need for photomultipliers, compensating instrumentation or liquid nitrogen cooling systems, according to the company. Since it is solid-state, the electronic interfaces required are relatively simple and straightforward. Its small size makes it possible to bond the detector directly onto printed circuit boards to create arrays of detectors for use in medical applications, according to the company.

CdTe can be handled by tweezers without clean room precautions and stored exposed to the atmosphere. It can be used in non-hazardous packages under general laboratory conditions. Radiation Monitoring Devices, Inc., 44 Hunt St., Watertown, MA 02172.

Circle Reader Service No. 102

Bone Densitometer

A dual-photon absorptiometry (DPA) unit with improved speed, precision, and accuracy, has been introduced by Novo Diagnostic Systems.

The new BMC-Lab 23, a multidetector system, reduces source expenses, has improved automatic calibration, and a built-in calibration standard. The software will allow proximal femur and lumbar spine scanning and can be upgraded in the future for total-body scanning, according to Novo. Novo Diagnostic Systems, 89 Danbury Road, Wilton, CT 06897.

Circle Reader Service No. 104

Image Analysis System, Digital Gamma Camera, Bone Densitometer

Sopha Medical Systems has introduced a complete imaging system, a digital gamma camera, and an advanced bone density measurement device.

Clinical protocols, including tomography, can be processed in less than a minute with the new Sophy image analysis system, a family of dedicated computers for nuclear medicine data acquisition and processing, according to the company. The system features a high data acquisition rate, with minimal operator input and quality controls.

A complete library of sophisticated clinical software is provided with the system, including a tomography package and protocols for cardiac, lung, liver, kidney and brain studies.

The Gammatome 3 gamma camera uses a 32-bit integrated image computer. A general purpose camera with a large viewing field, the Gammatome 3 is fully integrated with the Sophy imaging system for conventional, total body, and tomographic procedures.

For the diagnosis and monitoring of osteoporosis, Sopha developed the Osteodensitometer in cooperation with the French Atomic Energy Commission. This device uses the technique of dual-photon absorptiometry (DPA) to measure the bone mineral density of the lateral spine and proximal femur. Sopha Medical Systems, Inc., 910 Red Branch Rd., Columbia, MD 21045.

Circle Reader Service No. 103

Nuclear Surgical Probe System

This nuclear probe assists in the identification of tissue labeled with selective radiopharmaceuticals during surgery, according to the manufacturer, Radiation Monitoring Devices. By using a newly developed detector, high sensitivity can be achieved with a very small probe housing, suitable for use in the operating arena, said the company.

The probe has been used experimentally for the diagnosis of lesions such as osteoid osteomas and has demonstrated target to background count ratios as high as 5:1. This sensitivity allows accurate delineation of the lesion during surgery and helps insure that all of the diseased area is removed with minimal loss of healthy tissue, according to the company.

The system consists of two parts: the surgical probe itself, which contains both the detector and miniature preamplifier; and the counting system which is small (8 cm high x 21 cm wide x 20 cm deep), and which can be located up to two meters away from the probe. The system is powered by rechargeable batteries. Radiation Monitoring Devices, Inc., 44 Hunt St., Watertown, MA 02172.

Circle Reader Service No. 105

To submit information to the New Products section, send press releases and photographs (preferably black and white prints) to: Jillian E. Frohman, New Products Editor, The Journal of Nuclear Medicine, 136 Madison Ave., New York, NY 10016-6760.
If you're looking for the best uptake system, designed for patient comfort and easy operation, take a look at the Thyroid Uptake System II from Atomic Products.

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- Stable Formulation: May be used up to six (6) hours after preparation for imaging and assessing renal perfusion and up to one (1) hour after preparation for estimating glomerular filtration rate.
- Color Coding: Kit packaging and labeling are color coded for easy identification.
- Cost Effective: Multiple patient doses may be obtained from a single vial.

To Order Call: 800 MEDI-123

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DESCRIPTION: Each kit contains sterile, pyrogen-free, nonradioactive ingredients necessary to produce Technetium Tc 99m Pentetate Injection for diagnostic use by intravenous injection. Each 10 ml injection vial contains, in lyophilized form and under nitrogen atmosphere, 5 mg of Pentetate Pentasodium, and 0.17 mg (minimum) stannous chloride (maximum stannous and stannic chloride 0.275 mg). The pH is adjusted to 4.0 to 7.5 with hydrochloric acid and sodium hydroxide prior to lyophilization. The addition of sterile, pyrogen-free and oxidant-free Sodium Pertechnetate Tc 99m Injection is allowed to Technetium Tc 99m Pentetate Injection, when contains no bacteriostatic preservative.

INDICATIONS AND USAGE: Technetium Tc 99m Pentetate injection may be used to perform kidney imaging, brain imaging, to assess renal perfusion, and to estimate glomerular filtration rate.

CONTRAINDICATIONS: None known.

WARNINGS: None.

PRECAUTIONS:

General

The contents of this kit are not radioactive. However, after Sodium Pertechnetate Tc 99m Injection is added, use of protection should be maintained.

The contents of the reaction vial are intended only for use in the preparation of Technetium Tc 99m Pentetate Injection and are NOT to be directly administered to the patient.

The image quality may be adversely affected by impaired renal function.

Literature reports indicate that the target to non-target ratio for intracranial lesions may take several hours to develop fully, and the possibility of missing certain lesions when imaging is restricted to the early period after injection should be borne in mind.

To minimize radiation dose to the bladder, the patient should be encouraged to increase his fluid intake, and to void when the examination is completed and as often thereafter as possible for the next 4–6 hours.

Technetium Tc 99m Pentetate Injection should be formulated within six (6) hours prior to clinical use for brain and kidney imaging, and for assessing renal perfusion. For optimal results this time should be minimized. Intervals longer than one hour should be the exception.

Technetium Tc 99m Pentetate Injection for use in estimating glomerular filtration rate should be formulated within one (1) hour prior to clinical use.

The components of the kit are supplied sterile and pyrogen-free. Aseptic procedures normally employed in making additions and withdrawals from vials, pyrogen-free containers should be used during the addition of the pertechnetate solution and the withdrawal of doses for patient administration. The Technetium Tc 99m labeling reactions involved in preparing the agent depend on maintaining the stannous ion in the reduced state. Any oxidant present in the Sodium Pertechnetate Tc 99m supply may thus adversely affect the quality of the radiopharmaceutical. Hence, Sodium Pertechnetate Tc 99m containing oxidants should not be employed.

Technetium Tc 99m Pentetate Injection as well as other radioactive drugs must be handled with care and appropriate safety measures should be used to minimize external radiation exposure to clinical personnel. Also, care should be taken to minimize radiation exposure to patients consistent with proper patient management.

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

High background counts, poor images and erroneous clearance results have been observed with the use of slides extending expiration time, owing to inadequate labeling. The slides should not be used after the expiration date shown on the label.

Carcinogenesis, Mutagenesis, Impairment of Fertility

No long-term animal studies have been performed to evaluate carcinogenic potential, mutagenic potential, or whether Technetium Tc 99m Pentetate Injection affects fertility in males or females.

Pregnancy Category C

Animal reproduction and teratogenicity studies have not been conducted with Technetium Tc 99m Pentetate Injection. It is not known whether Technetium Tc 99m Pentetate Injection can cause fetal harm when administered to a pregnant woman or can affect reproductive capacity. There have been no studies in pregnant women. Technetium Tc 99m Pentetate Injection should be given to a pregnant woman only if clearly needed.

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

Nursing Mothers

Technetium Tc 99m is excreted in human milk during lactation. Therefore, formula feedings should be substituted for breast feedings.

Pediatric Use

Safety and effectiveness in children have not been established.

ADVERSE REACTIONS: Pyrogenic and allergic reactions to preparations of Technetium Tc 99m Pentetate Injection have been reported in the literature.

HHow Supplied:

Kit Contents

1 STERILE REACTION VIALS (10 cc, silver aluminum overseal), each containing, in lyophilized form and under nitrogen atmosphere, 5 mg of Pentetate Pentasodium, and 0.17 mg (minimum) stannous chloride (maximum stannous and stannic chloride 0.275 mg). Hydrochloric acid and sodium hydroxide have been added for pH adjustment prior to lyophilization.

2 PRESSURE-SENSITIVE LABELS for final preparation of Technetium Tc 99m Pentetate Injection.

1 PACKAGE INSERT