SPECTAMINE®
Iodine 123 I-123 injection

DIAGNOSTIC USE FOR INTRAVENOUS USE

DESCRIPTION: SPECTAMINE® iodine 123 I-123 injection, is supplied as a sterile, pyrogenic, aseptic, isotonically sodium chloride solution for intravenous administration. Each milliliter of the solution contains 37 megabecquerels (1 milliCi) of iodine 123 I-123 at a calibration time of 0.5 micromgram of iodine 123 I-123, 0.077 millicurie sodium phosphate, and 6.6 millicurie sodium chloride for conttnuity. The pH is adjusted to 4.5-6.0 with sodium hydroxide or hydrochloric acid.

SPECTAMINE® contains no bacteriostatic preservative. The radiocolloid composition at calibration time is not less than 95.0 percent I-123, not more than 4.0 percent I-124, and not more than 5.5 percent all others (I-125, I-126, I-128, and I-131). The radiocolloid composition at the 6-hour expiration time is not less than 83 percent I-123, not more than 6.2 percent I-124, and not more than 0.7 percent all others.

As shown in Table 1 the concentration of I-123 to I-124 decreases with time. Graph 1 shows the maximum concentration of I-123 and the maximum concentration of I-124 as a function of time.

Table 1. Radiolabeled Concentrations of I-123 and I-124

Graph 1

% % of TOTAL ACTIVITY
90 95 100
90 95 100

Table 2. Radiation Emission Data

γ Emission Mean Energy (keV)
Gamma-2 82.6 128

Table 3. Physical Characteristics of Iodine 123

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Table 4. Estimated Absorbed Radiation Dose

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<tr>
<th>Target Organ</th>
<th>At Calibration Time</th>
<th>At Expiration Time (6 hours after calibration)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brain</td>
<td>9.0 mGy/MBq</td>
<td>6.8 mGy/MBq</td>
</tr>
<tr>
<td>Bone</td>
<td>4.6 mGy/MBq</td>
<td>3.9 mGy/MBq</td>
</tr>
<tr>
<td>Lung</td>
<td>0.76 mGy/MBq</td>
<td>0.59 mGy/MBq</td>
</tr>
<tr>
<td>Liver</td>
<td>1.4 mGy/MBq</td>
<td>1.1 mGy/MBq</td>
</tr>
<tr>
<td>Kidneys</td>
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<td>1.31 mGy/MBq</td>
</tr>
<tr>
<td>Bladder</td>
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</tr>
<tr>
<td>Thyroid</td>
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</tr>
<tr>
<td>Other Soft Tissue</td>
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The dawn of metabolic brain imaging in the evaluation of stroke... and a new day for nuclear medicine

Patient history:
Patricia M, a 44-year-old woman with a history of hypertension, previous TIAs, right carotid endarterectomy

Reason for admission:
Onset of left-sided weakness and numbness

CT interpretation:
Normal

SPECTamine interpretation:
Decreased right hemisphere uptake in the region of the caudate nucleus, and less pronounced decrease in uptake in the right temporal lobe and lower right parietal lobe

SPECTamine image courtesy of the Medical College of Wisconsin, Milwaukee, WI

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CHINA TOURS DURING BEIJING AND TAIPEI CONFERENCES

The Society of Nuclear Medicine is offering its members the opportunity to combine attendance at the International Symposium on Nuclear Medicine (October 10–14, 1988, Beijing) and/or the Fourth Asia & Oceania Congress on Nuclear Medicine (November 1–4, 1988, Taipei) with a first-hand look at the fascinating culture of the Far East.

Each tour, completely escorted, will take you to areas that until recently have been inaccessible to the average American. You may choose from three basic tours:

1. **Beijing Symposium Tour**—Leaves the West Coast October 6. Includes a day in Hong Kong to get the flavor of the Orient before proceeding to Beijing. Departs Beijing October 15 for the U.S.

2. **China Extension Tour**—Begins on October 15, after the Symposium. From Beijing you travel through the once-closed cities of Xian and Buiin, seeing both a rural land unchanged for centuries and the exciting results of China's tentative steps towards capitalism. Two days are devoted to a stay in Hong Kong, where East meets West in an exotic blend of sampans and skyscrapers. Departure is October 22 for the West Coast.

3. **Taipei Congress Tour**—Leaves the West Coast October 22, return November 5. Included is a five-day visit to Hong Kong, enabling you to experience the excitement of the frenetic pace that consumes this last outpost of the Empire as it counts the days remaining until it once again becomes part of China.

You may also opt to combine the China Extension Tour with the Taipei Congress Tour.

This opportunity to combine prestigious scientific conferences with a look at part of the world so different to our own is truly unique. Of necessity, the number of attendees who may take advantage of these China tours is limited. We suggest you immediately contact:

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**EUROPEAN NUCLEAR MEDICINE CONGRESS 1988**

**AUGUST 26–SEPTEMBER 2**

**MILANO, ITALY**

**SCIENTIFIC PROGRAM**

Plenary sessions, with lectures given by invited speakers, will concern the following main topics: Oncology, Emission Tomography, Cardiology, Pediatrics, Neurology. Scientific Papers, "Works-in-Progress," Technicians' Program, Scientific and Commercial Exhibition, Pre- and Post-Congress Meetings are also included.

Topics related to nuclear medicine will be considered for inclusion in the scientific program as follows:

- **Instrumentation**: Instrumentation and New Technologies, Emission Computer Tomography (SPECT and PET), NMR, Computers, Image Processing, Artificial Intelligence, Quality Control of Instrumentations.
- **Radiopharmaceuticals**: Radiopharmaceutical Chemistry, New Radiopharmaceuticals, Radiolabeled Monoclonal Antibodies for Cancer Diagnosis and Therapy, Studies on Cell and Animal Models, Kinetics of Tracers, Quality Control of Radiopharmaceuticals, Dosimetry.
- **In Vitro Applications**: Tumor Markers, Radioimmunoassays, Cell Labeling Quality Control, Genetic Engineering.
- **Clinical Applications**: Cardiology and Circulation, Gastroenterology, Nephrology, Neurology, Hematology, Endocrinology, Pediatrics, Bone/Joint Diseases, Pulmonary Diseases, Thyroid Diseases, Metabolic Therapy, Radiation Risks.

**EXHIBITION**

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

**GENERAL INFORMATION**

Call for Abstracts: Official Abstract Sheets may be obtained by writing to the Official Organizing Offices, O.I.C. Incentive —Viale Majno, 21—1 20122 Milano. The deadline for the receipt of abstracts is March 1, 1988.

Registrations and Fees: Members of the European Association of Nuclear Medicine (EANM), regularly registered, will have free admission to the Congress, provided that they present their 1988 Membership card at the Registration Desk, or send a copy to the Official Organizing Offices. EANM Members must pay their fees by April 15, 1988. New EANM membership applications will be accepted only until April 15, 1988.

The registration fees for non-members will be Lit. 220,000 + VAT by June 15, 1988 and Lit. 300,000 + VAT after June 15, 1988.

Social Program: A comprehensive social program has been planned, including the Opening Ceremony with a concert and welcome cocktail (inclusive in the registration fee); an organ concert in one of the most beautiful churches of Milano; a dancing dinner in an old villa near Milano; the Farewell Party.

**PRESIDENT OF THE CONGRESS**: Prof. Dott. Gian Luigi Buraggi

Scientific Secretariat:
Division of Nuclear Medicine  
Istituto Nazionale dei Tumori  
Via Venezian, 1  
I-20133 Milano

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Positions available for a NUCLEAR MEDICINE PHYSICIAN with training and experience in radioimmunologic and radioimmunotherapy. Research and education support in clinical imaging laboratory available for research and clinical trials, including new in-house developed MOAbs in progress or planned. Affiliated with LAC-USC Medical Center and the Norris Comprehensive Cancer Center. Send CV to: Michael E. Siegel, MD, Director, Nuclear Medicine Division, LAC-USC Medical Center, Box 693, 1200 North State St., Los Angeles, CA 90033. An Equal Opportunity Employer.

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cepted through June 30, 1988. Send letters to: Dr. Ruth W. Beaudenec, Director of Medical Science, Department of Radiology, University of Minnesota Medical School, Box 382 UMC, 420 Delaware Street S.E., Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity and Affirmative Action Educator and Employer and specifically encourages applications from women and minorities.

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Radiologist

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NUCLEAR MEDICINE TECHNOLOGIST. Registered or registry eligible technologist wanted to work in a private nuclear cardiology office in Ann Arbor, Michigan. Excellent salary and benefits. Send resume to: Cardiovascular Associates, PC, 100 Cathedral St., Suite 2, Ann Arbor, Michigan 48101 or call (313)263-0788.
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Course Director: Stanley J. Goldsmith, MD

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Applicants should contact:

John E. Antoine, M.D.
Associate Director, Radiation Research Program
Division of Cancer Treatment
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JFK Medical Center, a 370+ bed acute care, comprehensive regional referral center located on Florida’s Gold Coast in the beautiful Palm Beach currently seeks a full-time Nuclear Medicine Technologist.

Qualified candidate must have an Associate of Science or Bachelor’s degree in Nuclear Medicine Technology from an institution approved by the American Medical Association. A degree in another scientific field may be acceptable. Approval by the Examination Board of the American Registry of Radiologic Technologists (ARRT) is also required, as is licensure by all government agencies when appropriate.

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SPECT: SINGLE PHOTON EMISSION COMPUTED TOMOGRAPHY:
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Automated Blood Measurement System
Scanditronix, Inc. has introduced the first commercial automated blood measurement system for PET imaging. The system increases accuracy and saves time compared with manual blood measurement techniques. Used with Scanditronix PC4096 whole body PET imager and PC2048 brain PET imager, the system is automatically started at the same time as the camera; however, measurement can be run independently. The user specifies the blood measurement and other parameters for a study in a central file associated with the camera data. Blood and camera data are synchronized, except for the transition time for the blood in the catheter. Scanditronix, Inc., 106 Western Ave., P.O. Box 987, Essex, MA 01929 (617)768-6994.
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Dual Photon Bone Densitometer
Philips Medical Systems has entered into an agreement with Medical & Scientific Enterprises, Inc., to market their range of Dual Photon Bone Densitometers (OsteoTech Systems). The OsteoTech software has been designed and engineered to provide the user with a state-of-the-art automated system, which allows bone densitometry to be classed a "true" radiology/nuclear medicine study, according to the company. The systems provide an inexpensive means of diagnosis. Advantages include elimination of the need for operator designation of the intervertebral spaces and bone edge determination prior to scan analysis; scanning of both the lateral and anterior/posterior views without patient repositioning; a double-balanced scanner rotational mechanism to assure proper patient positioning, stability, and comfort. Philips Medical Systems, P.O. Box 523, 5600 AM Eindhoven, The Netherlands. Tel.: +3140 757189.
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Radioaerosol System
CIS-US, Inc. announced the availability of its VENTICIS II radioaerosol system. The system allows for the evaluation of lung ventilation and pulmonary epithelial permeability using DTPA labeled with technetium-99m. The system is highly maneuverable and well shielded, allowing for the freedom of administering an aerosol at bedside, in the same position which is used for the ventilation procedure. VENTICIS II's combined nebulizer efficiency and unique particle sizer allows for the delivery of large volumes of particles, 60% to 70% between 0.25 and 0.5 microns. CIS-US, Inc., 10 De Angelo Dr., Bedford, MA 07130-2267 (800)221-7554.
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New Products

New Upgrade
An upgrade is available for the Matrix Instruments Multi-Imager-10 medical film recorder, the MI-10 PLUS. The key to the MI-10 PLUS upgrade is a newly developed super high resolution (900-line) monitor. The monitor features precise linearity, uniform light output and switch-selectable automatic interlacing that virtually eliminates video raster lines. The result, according to the company, is sharp images free of distortion, phosphor mottle and film artifacts. Visualization is further enhanced by a feature which places black borders between images. This reduces extraneous light and makes images easier to examine and enhances the contrast resolution of clinical studies. Matrix Instruments Service, One Ramland Rd., Orangeburg, NY 10962 (914)365-0202.
Circle Reader Service No. 104

Each description of the products below was condensed from information supplied by the manufacturer. The reviews are published as a service to the professionals working in the field of nuclear medicine, and their inclusion herein does not in any way imply an endorsement by the Editorial Board of The Journal of Nuclear Medicine or by The Society of Nuclear Medicine.
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