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As SMV, our combination of powerful resources and strong financing, underscored by $50 million in committed capital, enables us to continue building on this tradition of excellence. To better meet the needs of our customers, SMV offers the most diverse product line-up in nuclear medicine. We offer solutions for meeting the vast array of clinical and economic requirements, and support them with comprehensive customer service.

Now, as you might expect from the world’s largest dedicated nuclear medicine company, the SMV commitment to research and development spans the globe. Our mission — discover new practical solutions which expand the clinical value and use of nuclear medicine. Assuring Sopha, Summit and SMV customers — currently numbering over 3,500 systems in 50 countries — a steady stream of enhancements to keep their investment right up with the cutting-edge for years to come.

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Twinsburg, Ohio 44087 78534 Buc France
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- Simple Protocol-based Scan Setup
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  - 204.7 MIPS
  - 125.8 SPECint92
  - 121.2 SPECfp92
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You have a good Gamma Camera system, with a powerful computer system and advanced software. Of course these are essential to your day to day operations. However it does not guarantee that you will get artifact free images.

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  This new syringe shield features 360° viewing through 6.2 density leaded glass with tip-to-tip visibility.

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- Electronic power supply (no battery in chamber)
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- All the feature of the Atomlab™ 100 as well as:
- Clock/Calendar
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- Prints constancy reports with carbonless copies for Co-57, Cs-137, and Ba-133
- Saves up to 2 months of constancy data.
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- Inventory control of 25 samples, correcting for volume, activity and molybdenum concentration
- Volume determination and future dose computations
- Pharmaceutical purity quality control
- Isotope decay protection
- Automatic linearity calculations using attenuation tubes
- All enhanced functions performed with push button control
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The Atomlab™ 300
Dose Calibrator
- Extended measurement range
- Ultra-fast response time
- Factory calibrated for all PET isotopes
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- Complete wipe test system including Schilling, red cell survival, blood volume.
- Microtosh based
- Easy to use
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The Atomlab™ 950
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- The only POWER MAC based Thyroid Uptake System
- Easy to learn, easy to use
- 1024 Channel Multi-Channel Analyzer
- Real-time patient data
- In-Vitro programs for RBC Survival and Blood Volume
- NEW Hematology Mode includes programs for GFR and ERPF
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- Compatible with any Macintosh software program
The new Atomlab 950 Uptake System combines the speed, sophistication and ease of use of a Power Mac with the creative programming of Biolux to produce the first Mac-based Thyroid Uptake System. Just turn it on and go.

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- Auto-calculation and calibration
- Complements any size nuclear medicine department
- Uptakes, Bioassay, Wipe Testing, Schilling, Manual MCA mode and more....
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For more information call 1-800-631-5245.

This image of a radiographed hibiscus symbolizes the delicacy of the human body undergoing examination—illustrating the importance of using contrast agents that respect the body's natural harmony. "Harmony in Contrast" reflects the Bracco commitment to offering products that achieve this goal.
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The shape of your patients may help you recognize the potential for soft-tissue attenuation, especially in fleshy figures.

For female and large-chested or obese male patients, Cardiolite comes through with higher photon energy (140 keV) to provide images with greater anatomical detail. Clear images can enhance interpretive confidence—which may reduce false-positives and equivocal cases.

Cardiolite also offers the unique advantage of direct measurement of both myocardial perfusion and ventricular function from one study.

So the next time you’re faced with imaging female and large-chested or obese male patients, use Cardiolite and reduce soft-tissue attenuation.

Cardiolite
Kit for the preparation of Technetium Tc99m Sestamibi

To reduce soft-tissue attenuation
Cardiolite comes through

Stress testing should be performed only under the supervision of a qualified physician in a laboratory equipped with appropriate resuscitation and support apparatus. There have been infrequent reports of signs and symptoms consistent with seizure and severe hypersensitivity after administration of Tc99m Sestamibi.

Please see brief summary of prescribing information on adjacent page.

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Pediatric Use
Safety and effectiveness in children below the age of 18 have not been established.

ADVERSE REACTIONS: During clinical trials, approximately 8% of patients experienced a transient pyrexia and/or taste perversion (metallic or bitter taste) immediately after the injection of Technetium Tc99m Sestamibi. A few cases of transient headache, nausea, vomiting, hypertension, rash, urticaria, dry mouth, fever, dizziness, fatigue, dyspepsia, and hypotension have also been attributed to administration of the agent. Cases of anaphylaxis, chest pain, and death have occurred (see Warnings and Precautions). The following adverse reactions have been rarely reported: signs and symptoms consistent with seizure occurring shortly after administration of the agent; transient arthritis in a wrist joint; and severe hypersensitivity, which was characterized by dyspnea, hypotension, bradycardia, asthma and vomiting within two hours after a second injection of Technetium Tc99m Sestamibi.

DOSEAGE AND ADMINISTRATION: The maximum dose range for IV administration in a single dose to be employed in the average patient (70kg) is:

370-1110MBq (10-30mCi) of Technetium Tc99m Sestamibi injected intravenously are shown in Table 4.

Table 4. Radiation Absorbed Doses from Tc99m Sestamibi

<table>
<thead>
<tr>
<th>Estimated Radiation Absorbed Dose</th>
<th>Organ</th>
<th>2.0 hour void</th>
<th>4.8 hour void</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>rad/</td>
<td>mGy/</td>
<td>rad/</td>
</tr>
<tr>
<td></td>
<td>30mCi</td>
<td>1110MBq</td>
<td>30mCi</td>
</tr>
<tr>
<td>Breasts</td>
<td>0.2</td>
<td>2.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Gallbladder Wall</td>
<td>2.0</td>
<td>20.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Small Intestine</td>
<td>3.0</td>
<td>30.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Upper Large Intestine Wall</td>
<td>5.4</td>
<td>55.5</td>
<td>5.4</td>
</tr>
<tr>
<td>Lower Large Intestine Wall</td>
<td>3.9</td>
<td>40.0</td>
<td>4.2</td>
</tr>
<tr>
<td>Stomach Wall</td>
<td>0.6</td>
<td>6.1</td>
<td>0.6</td>
</tr>
<tr>
<td>Head Wall</td>
<td>0.5</td>
<td>5.1</td>
<td>0.5</td>
</tr>
<tr>
<td>Liver</td>
<td>2.0</td>
<td>20.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Kidneys</td>
<td>0.6</td>
<td>5.8</td>
<td>0.6</td>
</tr>
<tr>
<td>Ovaries</td>
<td>1.5</td>
<td>15.5</td>
<td>1.6</td>
</tr>
<tr>
<td>Testes</td>
<td>0.3</td>
<td>3.4</td>
<td>0.4</td>
</tr>
<tr>
<td>Red Marrow</td>
<td>0.5</td>
<td>3.5</td>
<td>0.5</td>
</tr>
<tr>
<td>Urinary Bladder Wall</td>
<td>2.0</td>
<td>20.0</td>
<td>4.2</td>
</tr>
<tr>
<td>Total Body</td>
<td>0.5</td>
<td>4.8</td>
<td>0.5</td>
</tr>
</tbody>
</table>

RADIATION DOSIMETRY: The radiation doses to organs and tissues of an average patient (70kg) per 1110MBq (30mCi) of Technetium Tc99m Sestamibi injected intravenously are shown in Table 4.

WARNING: In studying patients in whom cardiac disease is known or suspected, care should be taken to assure continuous monitoring and treatment in accordance with accepted clinical procedures. Infrequently, death has occurred 4 to 24 hours after Tc99m Sestamibi use and is usually associated with exercise stress testing (See Precautions).
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High Quality and Extended Stability in a SPECT Brain Perfusion Agent

JUST WHAT YOU’RE LOOKING FOR...
Technetium Tc99m Bicisate should be used with caution in patients with renal or hepatic impairment since it is eliminated primarily by renal excretion. Adverse reactions are rare (≤1%). For details, see Adverse Reactions section of the prescribing information. In clinical trials, at least one of three readers of Neurolite® images (blinded to all other clinical information) correctly diagnosed stroke for 85% of the subjects with stroke while unblinded interpretation of CT/MRI images resulted in the correct diagnosis of stroke in 88% of subjects with stroke. There were 11 false positive and 34 false negative interpretations of Neurolite images and 0 false positive and 31 false negative interpretations of CT/MRI results.
Just what you’re looking for...
HIGH-QUALITY IMAGES...
EXTENDED STABILITY...

High-Definition Perfusion Images

Well-defined lesions
- Clear definition of perfusion defects as determined by visual analysis

High brain-to-background activity
- Clear delineation between brain and background structures early after injection

Extended In Vitro Stability

The SPECT brain agent with 6-hour stability after preparation
- Allows for more flexible patient scheduling
- Useful in the acute setting since doses can be prepared beforehand
- Enables SPECT brain imaging to be used with agitated or uncooperative patients where study delays are often encountered
- Allows for convenience of unit dosing

Please see brief summary of prescribing information at the end of this advertisement.
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Desirable pharmacokinetics/dosimetry
- Accumulates rapidly in the brain
- Localizes as a function of regional brain perfusion, cellular uptake, and metabolism within the cells
- Rapid blood clearance—(<10% remains in the blood after 1 minute, <5% after 60 minutes)
- A dosing range of 10-30 mCi of Neurolite provides the flexibility to achieve improved image quality and/or reduced imaging time

Simple room-temperature preparation
One-step quality control procedure

NEUROLITE®
KIT FOR THE PREPARATION OF TECHNETIUM Tc99m BICISATE INJECTION
Quality you expect. Stability you need.

Please see brief summary of prescribing information on adjacent page.
Immediately before administration to the patient. Radiochemical purity should be checked before administration to the patient.

Neurolite, like other parenteral drug products, should be inspected visually for particulate matter and discoloration prior to administration whenever solution and container permit. Preparations containing particulate matter or discoloration should not be administered. They should be disposed of in a safe manner, in compliance with all applicable regulations.

Prior to reconstitution, vial A and vial B are stored at 15°-25°C. Protect vial A from light.

Store at room temperature (15°-30°C) after preparation.

Aspects of technique and effective shielding should be employed in withdrawing doses for administration to patients. Waterproof gloves and effective shielding should be worn when handling the product.

**Table 4.** Radiation Absorbed Doses From 370 MBq (10 mCi) of Technetium Tc99m Bicisate

<table>
<thead>
<tr>
<th>Organ</th>
<th>2.0 Hr Void</th>
<th>4.0 Hr Void</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mCi/370 MBq</td>
<td>mCi/10 MBq</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bone Surfaces</td>
<td>1.26</td>
<td>1.41</td>
</tr>
<tr>
<td>Brain</td>
<td>2.04</td>
<td>2.04</td>
</tr>
<tr>
<td>Gallbladder Wall</td>
<td>9.25</td>
<td>9.25</td>
</tr>
<tr>
<td>Intestine Wall (Lower)</td>
<td>4.81</td>
<td>5.55</td>
</tr>
<tr>
<td>Intestine Wall (Small)</td>
<td>3.48</td>
<td>3.70</td>
</tr>
<tr>
<td>Intestine Wall (Upper)</td>
<td>5.92</td>
<td>6.29</td>
</tr>
<tr>
<td>Kidneys</td>
<td>2.70</td>
<td>2.74</td>
</tr>
<tr>
<td>Liver</td>
<td>1.96</td>
<td>2.00</td>
</tr>
<tr>
<td>Lungs</td>
<td>0.74</td>
<td>0.74</td>
</tr>
<tr>
<td>Ovaries</td>
<td>2.00</td>
<td>2.96</td>
</tr>
<tr>
<td>Red Marrow</td>
<td>0.89</td>
<td>1.00</td>
</tr>
<tr>
<td>Testes</td>
<td>0.81</td>
<td>1.33</td>
</tr>
<tr>
<td>Thyroid</td>
<td>1.30</td>
<td>1.30</td>
</tr>
<tr>
<td>Urinary Bladder Wall</td>
<td>11.10</td>
<td>13.01</td>
</tr>
<tr>
<td>Total Body</td>
<td>0.89</td>
<td>1.07</td>
</tr>
</tbody>
</table>

**Table 5.** Radiation Absorbed Doses From 1110 MBq (30 mCi) of Technetium Tc99m Bicisate

<table>
<thead>
<tr>
<th>Organ</th>
<th>2.0 Hr Void</th>
<th>4.0 Hr Void</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mCi/1110 MBq</td>
<td>mCi/30 MBq</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mCi/1110 MBq</td>
</tr>
<tr>
<td>Bone Surfaces</td>
<td>3.77</td>
<td>4.22</td>
</tr>
<tr>
<td>Brain</td>
<td>6.11</td>
<td>6.11</td>
</tr>
<tr>
<td>Gallbladder Wall</td>
<td>331.75</td>
<td>27.72</td>
</tr>
<tr>
<td>Intestine Wall (Lower)</td>
<td>14.43</td>
<td>16.65</td>
</tr>
<tr>
<td>Intestine Wall (Small)</td>
<td>10.43</td>
<td>11.10</td>
</tr>
<tr>
<td>Intestine Wall (Upper)</td>
<td>17.76</td>
<td>18.87</td>
</tr>
<tr>
<td>Kidneys</td>
<td>8.10</td>
<td>8.21</td>
</tr>
<tr>
<td>Liver</td>
<td>5.88</td>
<td>5.99</td>
</tr>
<tr>
<td>Lungs</td>
<td>2.22</td>
<td>2.22</td>
</tr>
<tr>
<td>Ovaries</td>
<td>5.99</td>
<td>6.88</td>
</tr>
<tr>
<td>Red Marrow</td>
<td>2.66</td>
<td>3.00</td>
</tr>
<tr>
<td>Testes</td>
<td>2.44</td>
<td>4.00</td>
</tr>
<tr>
<td>Thyroid</td>
<td>3.89</td>
<td>3.89</td>
</tr>
<tr>
<td>Urinary Bladder Wall</td>
<td>33.33</td>
<td>81.03</td>
</tr>
<tr>
<td>Total Body</td>
<td>2.66</td>
<td>3.22</td>
</tr>
</tbody>
</table>

*Dosimetry calculated using the MIRD software program at Oak Ridge Associated Universities, P.O. Box 117, Oakridge, TN, 29 July 1986.

**References:**
IN A FOG??

using aerosols to determine the patency of the pulmonary airway system? Use a gas (that’s what the airway system is for), and Xenon (127 or 133) are gases which are safe, economical and easy to administer with the XENAMATIC™ 3000.

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- Remote Control Capability.

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The AccuSync 5L, our most full-featured model (featured at left) includes CRT monitor (visual) and Strip Chart Recorder (hard copy).

Model Specifications:

- Auto/Manual Trigger
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- Audio indicator
- Trigger pulse LED
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Department of Radiology Section of Nuclear Medicine

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• Appreciation of clinical applications of SPECT brain imaging.
• Knowledge of image acquisition and reconstruction.
• Appreciation of factors that influence image quality.
• Knowledge of quality control techniques for SPECT.

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This program is sponsored by the Medical College of Wisconsin.

TUITION:
The tuition fee of $650 includes the course syllabus, handouts, breaks, breakfasts, lunches, and other amenities involved in making this a pleasant learning experience. Maximum enrollments have been established. Cancellations prior to the course will be refunded, less a $30 administrative fee.

CREDIT:
The Medical College of Wisconsin is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians. Accordingly, the Medical College of Wisconsin designates this continuing medical education activity as meeting the criteria for 13.00 hours in Category I toward the Physician’s Recognition Award of the American Medical Association.

Nuclear Medicine Technologists who attend the SPECT Brain imaging Clinical Fellowship are eligible for 1.0 VOICE credit.

Register me for the following dates: (Please indicate a second choice)

☐ September 11-12, 1995 ☐ November 13-14, 1995

A check in the amount of $650 should accompany this registration form and be made payable to the Medical College of Wisconsin. Telephone registrations must be confirmed by check within 10 days.

Name _____________________________
Address ____________________________
City/State/Zip _________________________
Office Phone __________________________

☐ work address ☐ home address

Registrations and payment should be sent to:
LisaAnn Trembath
SPECT Brain Imaging Fellowship Coordinator
Nuclear Medicine Division
Medical College of Wisconsin
8700 W. Wisconsin Avenue
Milwaukee, WI 53226
Phone: (414) 777-3756 • Fax: (414) 771-3460

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For more information, contact: Education & Research Foundation, The Society of Nuclear Medicine, 1850 Samuel Morse Dr., Reston, VA 22090; or Sue Weiss, C.N.M.T., Administrative Director (312) 880-4416.
New Products

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.

The Label Printer That Goes Where You Go

Kroy Inc., has introduced a new method for printing labels and bar codes directly from your computer’s Windows™ based software. Windows and DOS® print capability is now available with its updated K2000 portable bar code and label printer. Users will be able to utilize programs like Microsoft® Word for Windows, Microsoft Excel and Strandware Quick Draw® for Windows to print durable labels that include True-Type™ fonts, bar codes, clip art and computer-scanned graphics. This improved portable printer allows users a wide range of versatility for every application. Weighing only 4.5 pounds, the K2000 is able to go anywhere you need bar code labels on demand. With 128K RAM, 256K ROM, eight bar code symbologies and six prompting languages built in, the K2000 can tackle the most demanding applications. Its RS-232 port can accept input from compatible scanners and sophisticated users can upload and download data to and from their computer. Tricia Bosco, Kroy Inc., P.O. Box C-12279, Scottsdale, AZ 85267-2279.

New Laser System From Polaroid

A chemically-free, totally digital imaging system for all radiology modalities has reached the medical market. The Helios 1417 Laser System from Polaroid provides sharp and clear images and makes it possible to eliminate silver-halide film and wet chemical processing, as well as the costs and hazards related to the use and disposal of toxic wastes from medical radiology. The new Helios system enables Polaroid to address all digital modalities, including CT, MRI and digital x-ray applications. The system consists of a carbon-based, digitally responsive film and a powerful laser imaging device that produces diagnostic quality 14"×17" transparencies in seconds. Helios' laser technology creates high-resolution images on a unique carbon-based film that responds digitally to laser energy. The process, digital gray scaling, can produce more than 4000 shades of gray, resulting in superior sharpness, clarity and overall image quality. The Helios 1417 allows for more image information for diagnosis on each film with its 6-bit architecture capable of 12-bit printing. Polaroid Medical Imaging Systems, 153 Needham Street, Building 3, Newton, MA 02164. Phone: (617) 386-4018.

Open Platform—The New Image Management System

Built on open architecture, the 3M Image Management System is scalable and expandable to allow users to adopt the system as their needs grow. The new image management system offers application-designed, integrated solutions for remote viewing and filming, critical care area viewing, print redundancy and home or office viewing. Digital images can be captured from both DICOM and non-DICOM digital modalities, including computed radiographs, and routed anywhere on the network. The viewing station is a high-resolution (2048 scan lines) workstation. Based on a Sun SPARC platform, the station offers the following functions: patient selection, modality-specific screen formatting and reformating, image comparisons, annotation, next/previous image, 12-bit window/level, video invert, zoom up/down, pan, reset, film, transmit, help and system administration. 3M Health Care Customer Helpline (800) 228-3957, ext. 7-1332.

New Venti-Scan III for Sharper DTPA Images

The new Venti-Scan III Radiaesolosystem is a completely self-contained unit for the administration of technetium DTPA. Packaged individually, each disposal kit contains everything needed to perform a single study. The new nebulizer features a small bubble that produces a fine particle size to enhance delivery of the radioactive. The kit also includes the new HEPA filter, a pleated design that traps moisture, decreases breathing resistance and offers trapping efficiency. The unit also offers a new, completely enclosed shield design that provides lead-shielded protection from top to bottom. The shield slides along a standard intravenous pole to any comfortable patient height and locks into position. For ventilator-assisted patients, the top of the shield has a sliding port to accommodate the new Venti-Pack Accessory Kit. Biodex Medical Systems, Brookhaven R&D Plaza, P.O. Box 702, Shirley, NY 11967-0917. Phone: (800) 224-6339. Fax: (516) 924-9241.

A Manageable Manual

PC Associates Ltd. introduces an easy to follow flow-chart manual for Sophy DSX-DS7 version 2.01 software. A reference tool for the novice or expert, this manual presents acquisition processing, patient database and system management guidelines. All general nuclear medicine procedures compiled in the manual are simplified in the acquisition and processing sections. Patient database and system management includes everything from camera quality control to efficient ways to handle patient files. Tested in a hospital setting, use of the manual has proven to be effective in streamlining any department, clinic or private office. Scott Platsky, President, PC Associates Ltd., P.O. Box 84424, Phoenix, AZ 85071. Phone: (800) 347-1406.
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