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Sopha Medical and Summit Nuclear have merged to form a dynamic new company. As *SMV*, our combined forces are focused on being the finest nuclear medicine imaging company in the world.

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If you are considering a new nuclear medicine imaging system, plug into the high energy of *SMV*. For more information on our dynamic new company, products and services,

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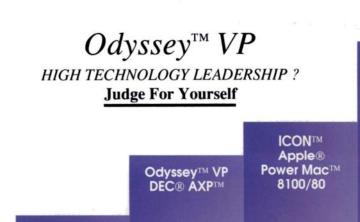
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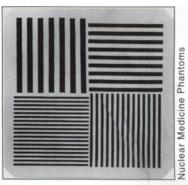
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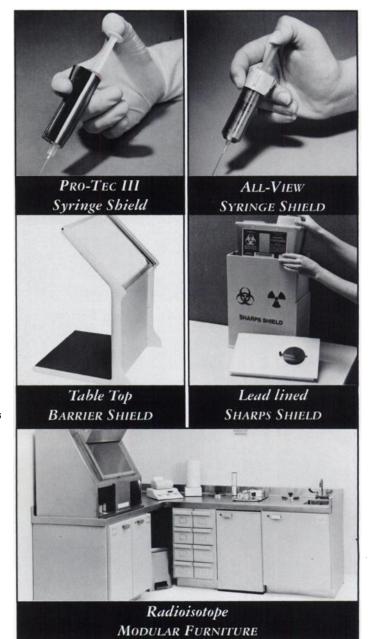
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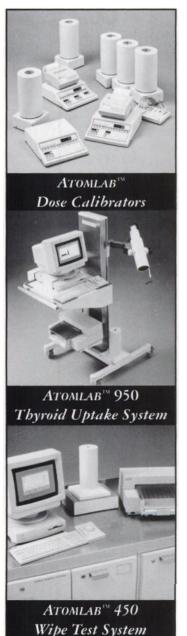
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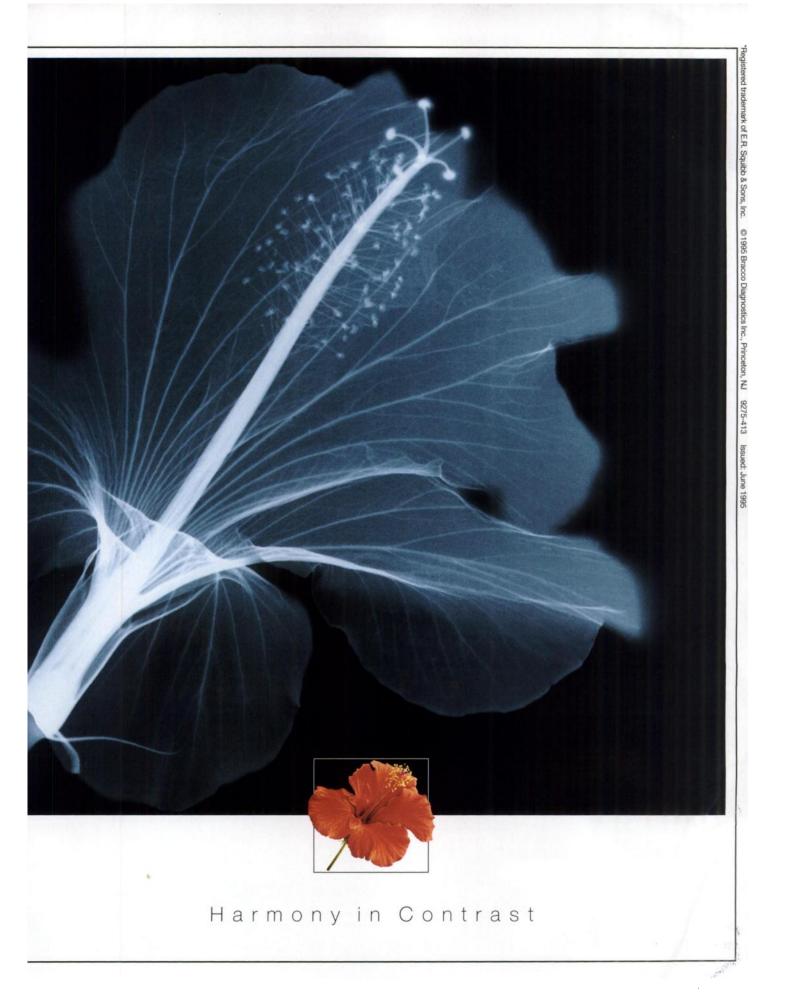
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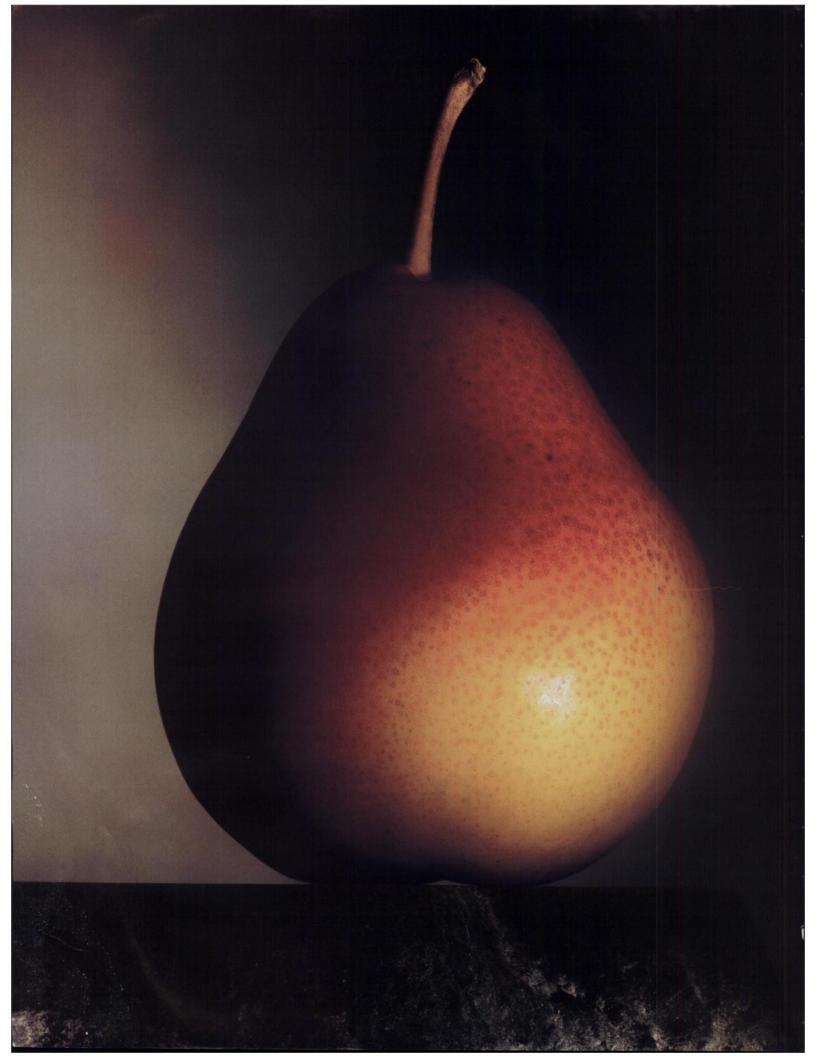
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This image of a radiographed hibiscus symbolizes the delicacy of the human body undergoing examination—illustrating the importance of using contrast agents that respect the body's natural harmony. "Harmony in Contrast" reflects the Bracco commitment to offering products that achieve this goal.







How to recognize a candidate for Cardiolite

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.



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.

© 1994, DuPont Pharma

DIAGNOSTIC USE F O R

DESCRIPTION: Each 5ml vial contains a sterile, non-pyrogenic, lyophilized mixture of: Tetrakis (2-methoxy isobutyl isonitrile) Copper (I) tetrafluoroborate - 1.0mg Sodium Citrate Dihydrate - 2.6mg L-Cysteine Hydrochloride Monohydrate - 1.0mg

Decysterier Tyudentini the Motionlymate - 1.0mg
Mannitol - 20mg
Stannous Chloride, Dihydrate, minimum (SnCl₂*2H₂O) - 0.025mg
Stannous Chloride, Dihydrate, (SnCl₂*2H₂O) - 0.075mg
Tin Chloride (Stannous and Stannic) Dihydrate, maximum (as SnCl₂*2H₂O) - 0.086mg

Prior to lyophilization the pH is 5.3-5.9. The contents of the vial are lyophilized and stored under

This drug is administered by intravenous injection for diagnostic use after reconstitution with sterile, non-pyrogenic, oxidant-free Sodium Pertechnetate Tc99m Injection. The pH of the reconstituted product is 5.5 (5.0-6.0). No bacteriostatic preservative is present.

The precise structure of the technetium complex is Tc99m[MIBI]6* where MIBI is 2-methoxy isobutyl isonitrile.

INDICATIONS AND USAGE: CARDIOLITE*, Kit for the Preparation of Technetium Tc99m Sestamibi is a myocardial perfusion agent that is useful in the evaluation of ischemic heart disease. CARDIOLITE*, Kit for the Preparation of Technetium Tc99m Sestamibi is useful in distinguishing normal from abnormal myocardium and in the localization of the abnormality, in patients with suspected myocardial infarction, ischemic heart disease or coronary artery disease. Evaluation of ischemic heart disease or coronary artery disease is accomplished using rest and stress techniques.

CARDIOLITE*, Kit for the Preparation of Technetium Tc99m Sestamibi is also useful in the evaluation of myocardial function using the first pass technique.

Rest-exercise imaging with Tc99m Sestamibi in conjunction with other diagnostic information may be used to evaluate ischemic heart disease and its localization.

In clinical trials, using a template consisting of the anterior wall, inferior-posterior wall and isolated and since trains, using a temperature consistency of the anterior wall, intertor wall in patients with suspected angina pectoris or coronary artery disease was shown. Disease localization isolated to the apex has not been established. Tc99m Sestamibi has not been studied or evaluated in other cardiac diseases.

It is usually not possible to differentiate recent from old myocardial infarction or to differentiate recent myocardial infarction from ischemia.

CONTRAINDICATIONS: None known.

WARNINGS: In studying patients in whom cardiac disease is known or suspected, care should be taken to assure continuous monitoring and treatment in accordance with safe, accepted clinical procedure. Infrequently, death has occurred 4 to 24 hours after Tc99m Sestamibi use and is usually associated with exercise stress testing (See Precautions).

PRECAUTIONS:

GENERAL.

The contents of the vial are intended only for use in the preparation of Technetium Tc99m Sestamibi and are not to be administered directly to the patient without first undergoing the preparative

Radioactive drugs must be handled with care and appropriate safety measures should be used to minimize radiation exposure to clinical personnel. Also, care should be taken to minimize radiation exposure to the patients consistent with proper patient management.

Contents of the kit before preparation are not radioactive. However, after the Sodium Pertechnetate Tc99m Injection is added, adequate shielding of the final preparation must be maintained.

The components of the kit are sterile and non-pyrogenic. It is essential to follow directions carefully and to adhere to strict aseptic procedures during preparation.

Technetium Tc99m labeling reactions involved depend on maintaining the stannous ion in the reduced state. Hence, Sodium Pertechnetate Tc99m Injection containing oxidants should not be used.

Technetium Tc99m Sestamibi should not be used more than six hours after preparation.

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.

Stress testing should be performed only under the supervision of a qualified physician and in a laboratory equipped with appropriate resuscitation and support apparatus

The most frequent exercise stress test endpoints, which resulted in termination of the test during controlled Tc99m Sestamibi studi patients) were:

stumes (tho-numes her	c can unic par
Fatigue	35%
Dyspnea	17%
Chest Pain	16%
ST-depression	7%
Arrhythmia	1%

Carcinogenesis, Mutagenesis, Impairment of Fertility
In comparison with most other diagnostic technetium labeled radiopharmaceuticals, the radiation dose to the ovaries (1.5rads/30mCi at rest, 1.2 rads/30mCi at exercise) is high. Minimal exposure (ALARA) is necessary in women of childbearing capability. (See Dosimetry subsection in DOSAGE AND ADMINISTRATION section.)

The active intermediate, [Cu(MIBI),]BF, was evaluated for genotoxic potential in a battery of five tests. No genotoxic activity was observed in the Ames, CHO/HPRT and sister chromatid exchange tests (all *in vitro*). At cytotoxic concentrations (≥ 20µg/ml), an increase in cells with chromosome aberrations was observed in the *in vitro* human lymphocyte assay. [Cu(MIB),]BF, did not show genotoxic effects in the *in vivo* mouse micronucleus test at a dose which caused systemic and bone marrow toxicity (9mg/kg, > 600 × maximal human dose).

Pregnancy Category C
Animal reproduction and teratogenicity studies have not been conducted with Technetium Tc99m Sestamibi. It is also not known whether Technetium Tc99m Sestamibi can cause fetal harm when administered to a pregnant woman or can affect reproductive capacity. There have been no studies in pregnant women. Technetium Tc99m Sestamibi should be given to a pregnant woman only if clearly

Nursing Mothers
Technetium Tc99m Pertechnetate is excreted in human milk during lactation. It is not known whether Technetium Tc99m Sestamibi is excreted in human milk. Therefore, formula feedings should be substituted for breast feedings.

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 parosmia and/or taste perversion (metallic or bitter taste) immediately after the injection of Technetium Tc99m Sestamibi. A few cases of transient headache, flushing, edema, injection site inflammation, dyspepsia, nausea, vomiting, pruritus, rash, urticaria, dry mouth, fever, dizziness, fatigue, dyspnea, and hypotension also have been attributed to administration of the agent. Cases of angina, 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, asthenia and vomiting within two hours after a second injection of Technetium Tc99m Sestamibi.

DOSAGE AND ADMINISTRATION: The suggested dose range for I.V. administration in a single dose to be employed in the average patient (70kg) is:

370-1110MBq (10-30mCi)

The dose administered should be the lowest required to provide an adequate study consistent with ALARA principles (see also PRECAUTIONS).

When used in the diagnosis of myocardial infarction, imaging should be completed within four hours

The patient dose should be measured by a suitable radioactivity calibration system immediately prior to patient administration. Radiochemical purity should be checked prior to patient administration

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration whenever solution and container permit.

Store at 15-25°C before and after reconstitution.

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.

Table 4. Radiation Absorbed Doses from Tc99m Sestamibi

Estimated	Radiation	Absorbed	Dose
-----------	-----------	----------	------

Organ	REST				
	2.0	2.0 hour void		4.8 hour void	
	rads/ 30mCi	mGy/ 1110MBq	rads/ 30mCi	mGy/ 1110MBq	
Breasts	0.2	2.0	0.2	1.9	
Gallbladder Wall	2.0	20.0	2.0	20.0	
Small Intestine	3.0	30.0	3.0	30.0	
Upper Large Intestine Wall	5.4	55.5	5.4	55.5	
Lower Large Intestine Wall	3.9	40.0	4.2	41.1	
Stomach Wall	0.6	6.1	0.6	5.8	
Heart Wall	0.5	5.1	0.5	4.9	
Kidneys	2.0	20.0	2.0	20.0	
Liver	0.6	5.8	0.6	5.7	
Lungs	0.3	2.8	0.3	2.7	
Bone Surfaces	0.7	6.8	0.7	6.4	
Thyroid	0.7	7.0	0.7	6.8	
Ovaries	1.5	15.5	1.6	15.5	
Testes	0.3	3.4	0.4	3.9	
Red Marrow	0.5	5.1	0.5	5.0	
Urinary Bladder Wall	2.0	20.0	4.2	41.1	
Total Body	0.5	4.8	0.5	4.8	

STRESS

	2.0 hour void		4.8 hour void	
Organ	rads/ 30mCi	mGy/ 1110MBq	rads/ 30mCi	mGy/ 1110MBq
Breasts	0.2	2.0	0.2	1.8
Gallbladder Wall	2.8	28.9	2.8	27.8
Small Intestine	2.4	24.4	2.4	24.4
Upper Large Intestine Wall	4.5	44.4	4.5	44.4
Lower Large Intestine Wall	3.3	32.2	3.3	32.2
Stomach Wall	0.5	5.3	0.5	5.2
Heart Wall	0.5	5.6	0.5	5.3
Kidneys	1.7	16.7	1.7	16.7
Liver	0.4	4.2	0.4	4.1
Lungs	0.3	2.6	0.2	2.4
Bone Surfaces	0.6	6.2	0.6	6.0
Thyroid	0.3	2.7	0.2	2.4
Ovaries	1.2	12.2	1.3	13.3
Testes	0.3	3.1	0.3	3.4
Red Marrow	0.5	4.6	0.5	4.4
Urinary Bladder Wall	1.5	15.5	3.0	30.0
Total Body	0.4	4.2	0.4	4.2

Radiopharmaceutical Internal Dose Information Center, July, 1990, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge, TN 37831, (615) 576-3449.

HOW SUPPLIED: Du Pont Radiopharmaceuticals' CARDIOLITE*, Kit for the Preparation of Technetium Tc99m Sestamibi is supplied as a 5ml vial in kits of two (2), five (5) and thirty (30) vials, sterile and non-pyrogenic.

Prior to lyophilization the pH is between 5.3-5.9. The contents of the vials are lyophilized and stored under nitrogen. Store at 15-25°C before and after reconstitution. Technetium Tc99m Sestamibi contains no preservatives. Included in each two (2) vial kit are one (1) package insert, six (6) vial shield labels and six (6) radiation warning labels. Included in each five (5) vial kit are one (1) package insert, six (6) vial shield labels and six (6) radiation warning labels. Included in each thirty (30) vial kit are one (1) package insert, thirty (30) vial shield labels and thirty (30) radiation warning labels.

The U.S. Nuclear Regulatory Commission has approved this reagent kit for distribution to persons licensed to use byproduct material pursuant to section 35.11 and section 35.200 of Title 10 CFR Part 35, to persons who hold an equivalent license issued by an Agreement State, and, outside the United States, to persons authorized by the appropriate authority.



Radiopharmaceuticals

Marketed by Du Pont Radiopharmaceutical Division The Du Pont Merck Pharmaceutical Co. 331 Treble Cove Road Billerica, Massachusetts, USA 01862

513121-0394 Brief Summary 3/94 Printed in U.S.A.

New from DuPont Radiopharmaceuticals: High Quality and Extended Stability in a SPECT Brain Perfusion Agent

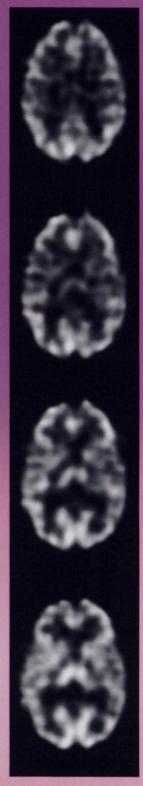
JUST WHAT YOU'RE LOOKING FOR...



Introducing a **NEW** SPECT Brain Perfusion Agent

REUROLITE

KIT FOR THE PREPARATION OF TECHNETIUM To 99m BICISATE INJECTION



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.

Normal images, using Neurolite, of a 36-year-old female.

—Courtesy of Thomas C. Hill, MD,
Deaconess Hospital, Boston, Mass

Just what you're looking for...



High-Definition Perfusion Images

Well-defined lesions

Clear definition of perfusion defects as determined by visual analysis

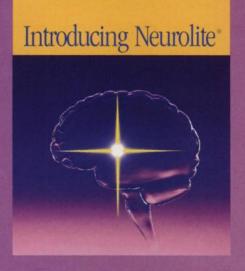
High brain-to-background activity

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



JUST WHAT YOU'RE LOOKING FOR...

Desirable pharmacokinetics/dosimetry

- ♦ Accumulates rapidly in the brain^{1,2}
- 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 time¹

Simple room-temperature preparation
One-step quality control procedure

REUROLITE

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.



Radiopharmaceuticals



FOR DIAGNOSTIC USE

The following is a brief summary. For more information please see complete prescribing

INDICATIONS

Neurolite single photon emission computerized tomography (SPECT) is indicated as an adjunct to conventional CT or MRI imaging in the localization of stroke in patients in whom stroke has already been diagnosed.

Neurolite is not indicated for assessment of functional viability of brain tissue. Also, Neurolite is not indicated for distinguishing between stroke and other brain lesions.

CONTRAINDICATIONS

None known

WARNINGS

None known.

PRECAUTIONS

General

USE WITH CAUTION IN PATIENTS WITH RENAL OR HEPATIC IMPAIRMENT. TECHNETIUM TC99m BICISATE IS ELIMINATED PRIMARILY BY RENAL EXCRETION. WHETHER TECHNETIUM TC99m BICISATE IS DIALYZABLE IS NOT KNOWN. DOSE ADJUSTMENTS IN PATIENTS WITH RENAL OR HEPATIC IMPAIRMENT HAVE NOT BEEN

Patients should be encouraged to drink fluids and to void frequently during the 2-6 hours immediately after injection to minimize radiation dose to the bladder and other target

Contents of the vials are intended only for use in the preparation of Technetium Tc99m Bicisate and are not to be administered directly to the patient without first undergoing the

The contents of each vial are sterile and nonpyrogenic. To maintain sterility, aseptic technique must be used during all operations in the manipulation and administration of Neurolite.

Technetium Tc99m Bicisate should be used within six hours of the time of preparation.

As with any other radioactive material, appropriate shielding should be used to avoid unnecessary radiation exposure to the patient, occupational workers, and other people.

Radiopharmaceuticals should be used only by physicians who are qualified by specific training in the safe use and handling of radionuclides.

Carcinogenesis, Mutagenesis, Impairment of Fertility
Studies have not been conducted to evaluate carcinogenic potential or effects on fertility. When tested in vitro, Neurolite prepared with decayed generator eluate induced unscheduled DNA synthesis in rat hepatocytes and caused an increased frequency of sister chromatid exchanges in CHO cells; but, it did not induce chromosome aberrations in human lymphocytes or cause gene mutations in the Ames test or in a CHO/HGPRT test. Unreacted bicisate dihydrochloride increased the apparent rate of gene mutation of the TA 97a strain of S. typhimurium in the Ames test; but, it did not demonstrate clastogenic activity in an in vivo micronucleus assay in mice.

Pregnancy: Teratogenic Effects

Pregnancy Category C
Animal reproduction studies have not been conducted with Technetium Tc99m Bicisate. It Animal reproduction studies have not been conducted with Technetium Toyam Bicisate. It is also not known whether Technetium Toyam Bicisate can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Therefore, Technetium Toyam Bicisate should not be administered to a pregnant woman unless the potential benefit justifies the potential risk to the fetus.

Technetium Tc99m Pertechnetate can be excreted in human milk. Therefore, formula should be substituted for breast milk until the technetium has cleared from the body of

Pediatric Use

Safety and effectiveness in children have not been established.

ADVERSE REACTIONS

In clinical trials, Neurolite has been administered to 1022 subjects (262 normals, 760 patients). Of these, 548 (54%) were men and 473 (46%) were women. The mean age was 58 years (range 17 to 92 years). In the 760 patients who had experienced neurologic events, there were 11 (1.4%) deaths, none of which were clearly attributed to Neurolite.

A total of 60 subjects experienced adverse reactions; the adverse reaction rates were comparable in the <65 year and the >65 year age groups.

The following adverse effects were observed in ≤1% of the subjects: headache, dizziness, seizure, agitation/anxiety, malaise/somnolence, parosmia, hallucinations, rash, nausea, syncope, cardiac failure, hypertension, angina, and apnea/cyanosis.

In clinical trials of 197 patients, there were inconsistent changes in the serum calcium and phosphate levels. The cause of the changes has not been identified and there are and magnitude have not been clearly characterized. None of the changes required medical intervention

DOSAGE AND ADMINISTRATION

Before administration, a patient should be well hydrated. After administration, the patient should be encouraged to drink fluids liberally and to void frequently.

The recommended dose range for intravenous administration for a 70 kg patient is 370 - 1110 MBq (10-30 mCi). Dose adjustments for age, weight, gender, or renal or hepatic impairment have not been studied.

The dose for the patient should be measured by a suitable radioactivity calibration system

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

Aseptic techniques 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.

RADIATION DOSIMETRY

The radiation doses to organs and tissues of an average patient (70 kg) for Technetium Tc99m Bicisate injected intravenously for 370 MBq (10 mCi) are shown in Table 4 and for 1110 MBq (30 mCi) are shown in Table 5.

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

Estimated Absorbed Radiation Dose²

	2.0 H	4.8 Hr. Void		
	mGy/	rads/	mGy/	rads/
	370 MBq	10 mCi	370 MBq	10 mCi
Organ	·		•	
Bone Surfaces	1.26	0.13	1.41	0.14
Brain	2.04	0.20	2.04	0.20
Gallbladder Wall	9.25	0.91	9.25	0.92
Intestine Wall				
(Lower Large)	4.81	0.47	5.55	0.55
Intestine (Small)	3.48	0.35	3.70	0.38
Intestine Wall				
(Upper Large)	5.92	0.61	6.29	0.63
Kidneys	2.70	0.27	2.74	0.27
Liver	1.96	0.20	2.00	0.20
Lungs	0.74	0.08	0.74	0.08
Ovaries	2.00	0.22	2.96	0.30
Red Marrow	0.89	0.09	1.00	0.10
Testes	0.81	0.08	1.33	0.13
Thyroid	1.30	0.13	1.30	0.13
Urinary Bladder Wall	11.10	1.10	27.01	2.70
Total Body	0.89	0.09	1.07	0.11

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

Estimated Absorbed Radiation Dose²

	Communica / Nocoroda / Naciation occo			
	2.0 Hr. Void		4.8 Hr. Void	
	mGy/ 1110 MBq	rads/ 30 mCi	mGy/ 1110 M Bg	rads/ 30 mCi
Organ	•		•	
Bone Surfaces	3.77	0.39	4.22	0.42
Brain	6.11	0.61	6.11	0.61
Gallbladder Wall Intestine Wall	27.75	2.73	27.75	2.76
(Lower Large)	14.43	1.41	16.65	1.65
Intestine (Small)	10.43	1.05	11.10	1.14
(Upper Large)	17.76	1.83	18.87	1.89
Kidneys	8.10	0.81	8.21	0.81
Liver	5.88	0.60	5.99	0.60
Lungs	2.22	0.23	2.22	0.23
Ovaries	5.99	0.66	8.88	0.90
Red Marrow	2.66	0.26	3.00	0.29
Testes	2.44	0.24	4.00	0.39
Thyroid	3.89	0.39	3.89	0.39
Urinary Bladder Wall	33.33	3.33	81.03	8.10
Total Body	2.66	0.27	3.22	0.33
iolai body	2.00	0.27	3.22	0.33

¹Dosimetry calculated using the MIRD software program at Oak Ridge Associated Universities, P.O. Box 117, Oakridge, TN, 29 July 1988.



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References: 1. Holman BL, Hellman RS, Goldsmith SJ, et al. Biodistribution, dosimetry, nd clinical evaluation of technetium-99m ethyl cysteinate dimer in normal subjects and in patients with chronic cerebral infarction. *J Nucl Med.* 1989;30:1018-1024.

2. Vallabhajosula S, Zimmerman RE, Picard M, et al. Technetium-99m ECD: a new brain imaging agent: in vivo kinetics and biodistribution studies in normal human subjects. *J Nucl Med.* 1989;30:599-604.

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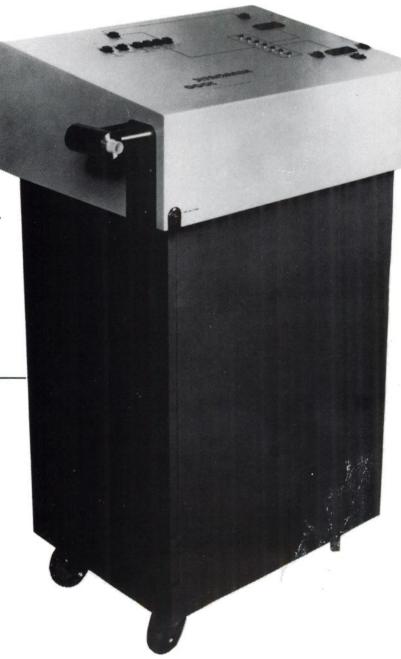
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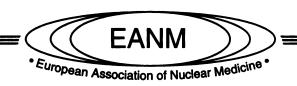
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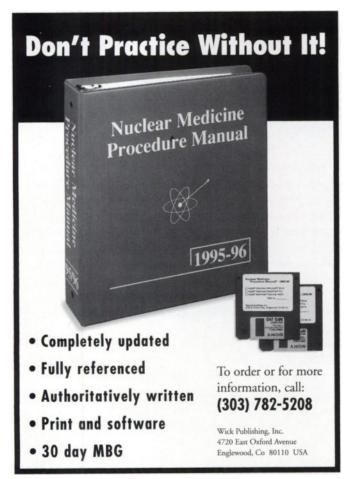


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SPECT BRAIN IMAGING CLINICAL FELLOWSHIP



Department of Radiology Section of Nuclear Medicine

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This program is designed for nuclear medicine physicians, radiologists, technologists and referring physicians. It is intended to educate participants about the clinical utility of SPECT brain imaging with agents such as Ceretec® and Neurolite®.

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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.

SPONSORSHIP:

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.

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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 com-

puter'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 Ouick Draw® for Windows to print durable labels that include True-Type™ fonts, bar codes, clip art and computerscanned 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 xray 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 carbonbased 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 highresolution (2048 scan lines) workstation. Based on a Sun SPARC platform, the station offers the following functions: patient selection, modality-specific screen formatting and reformatting, 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 Radioaerosol System 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 baffle that produces a fine particle size to enhance delivery of the radioaerosol. 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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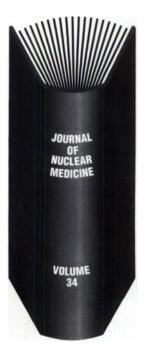
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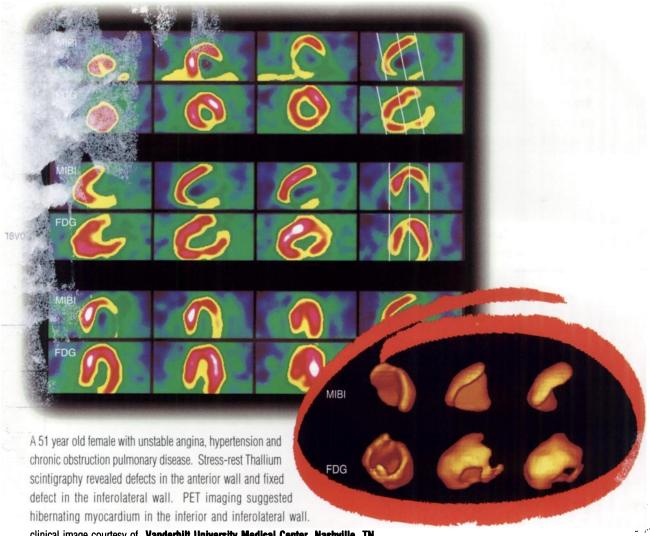
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