

# What's New

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

## Radionuclide Measurement/Management

Radcal Corp. announces the model 4045 radionuclide manager for the management of nuclear medicine radionuclide inventories. In addition to measurement capability, the "Manager" can maintain an inventory of up to 50 different isotopes without restrictions on the half-life or calibration factor. Capabilities include inventory management, display, and printing, as well as decay-corrected patient tickets and quality control. Printed records are automatically provided for all major transactions.

For departments using unit dose, Radcal offers the basic activity calibrator, model 4050, a fully automatic unit with calibration programmed for eight isotopes. All eight isotope keys and an "other" key are user-programmable. The compact design of this calibrator minimizes bench space. Additional features include large, easy-to-read display, user-selectable automatic background suppression, and switch-selectable measurement units (Becquerels or Curies). Because the model 4050 utilizes the same chamber as the model 4045, upgrading to 4045 capabilities can be achieved without obsolescence of the sensor unit.—*Sales Manager, Radcal Corp., 426 West Duarte Rd., Monrovia, CA 91016*

Circle Reader Service No. 50

## Cardiac Phantom

The ADC heart phantom, model HP-100, is a totally electronic controlled system, which allows the clinician to set up specific programs for testing cardiologic dynamic studies. The sliding shield simulating heart motion allows complete testing and analysis of the camera, computer program, and system reliability for different values of ejection fraction. The heart rate is displayed digitally and is adjustable from 40 to 120 beats per min. The ratio of the diastolic-to-systolic periods is also adjustable from a value of 1 to 3, allowing a simulation of actual patient conditions. A trigger signal corresponding to the QRS complex is also

provided for gated cardiac studies.—*Amici, Inc., 373 Main St., Collegeville, PA 19426*

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## Lead Shielding Bricks

R/X Nuclear announces the availability of Light-Lead™ shielding bricks. These bricks were designed to replace the heavy lead bricks used in nuclear medicine. Each Light-Lead weighs 7 lb in a 2 × 4 × 8 in. brick. This brick is a homogeneous mixture of lead in an inert polymer. Its density is one-fourth that of solid lead. The cost of Light-Lead bricks is said to be only a fraction of that of solid lead bricks.—*R/X Nuclear, Div. of Reactor Experiments, Inc., 963 Terminal Way, San Carlos, CA 94070*

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## New Dose Calibrator

A new, low-cost dose calibrator provides rapid, reliable determination of radioisotope activity and concentration for permanent record-keeping. After one measurement to calibrate the instrument for a specific sample, no further radiation measurements are needed. A built-in microcomputer stores the measured activity together with the date, time, isotope identification, and sample volume. When the activity/ml must be known at a later date, the system automatically calculates it in mega-Becquerels or mCi. It can even determine the exact syringe volume needed to achieve a specified dose.

The unit is preprogrammed with the half-lives of 37 different radioisotopes and automatically compensates for decay. In its calculations, a background figure previously measured and stored is automatically subtracted. A built-in printer provides a permanent record of date, time, radioisotope, activity, concentration (activity/ml), and syringe volume.—*Nuclear Associates, 100 Voice Rd., Carle Place, NY 11514*

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## Radioisotope Injection Unit

A new radioisotope bolus injection unit, designed specifically for dynamic flow studies of heart, liver, kidney, and brain, is available from International Medical Industries. The unit permits placement of a short, compact bolus directly into the flush stream to achieve crisp, clear scintigraphic images.

A one-way leaf valve prevents reflux into the flush syringe. The wedge-shaped injection chamber forms the radioisotope into a bolus with minimal dilution. Luer lock ears provide a positive connection to the flush syringe.

The IMI/paramedical 56-10 units are sterile, pyrogen-free, and disposable, packaged 40 per case in individual blister packs.—*International Medical Industries, 570 Pleasant St., Watertown, MA 02172*

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## Imaging Automation

The multimodality acquisition and review system (MARS) is to be used in video display and digital archiving of all types of medical images. The system is primarily composed of Gould Electronic's IP8500 image processing system, with combinations of Winchester and real-time digital disks. As a "digital lightbox," MARS combines touch-sensitive terminals, uniquely flexible software, and top-speed data transfers to create the "pick and point" method of analyzing image data clipped to a lightbox. It reduces the rapidly expanding cost of film x-rays and scans while centralizing and standardizing image analysis and storage.—*Gould Inc., DeAnza Imaging and Graphics Div., 1870 Lundy Ave., San Jose, CA 95131*

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New product releases must be received by January 2, 1984, in order to be considered by the Journal for review in the March issue.

Send new product information to the Coordinating Editor, *Journal of Nuclear Medicine Technology*, 475 Park Avenue South, New York, NY 10016.

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