

# What's New

Every description of the items on the following two pages 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 herein does not in any way imply an endorsement by the Editorial Board of the JNMT or by the Society of Nuclear Medicine.

## Cardiac Phantom

Capintec, Inc. announces the Vanderbilt cardiac phantom, designed to simulate the geometry of the left ventricle and atrium. The phantom's simulated chambers are ellipsoids of revolution stacked one above the other with the major axis of each positioned at right angles with respect to each other. Stationary activity distributions simulate background and the right heart chambers and aorta are also included.

When rotated and imaged from the lateral position, the phantom exhibits wall motion of both the left atrium and ventricle. Wall motion can be determined exactly from the geometry of the ellipsoids and is provided in terms of millimeters of displacement from the end-systolic state. Because the ellipsoids are at right angles, the atrium and ventricle will appear to beat with the proper phase, i.e., atria systole at ventricle diastole.—*Capintec, Inc., 136 Summit Ave., Montvale, NJ 07645.*

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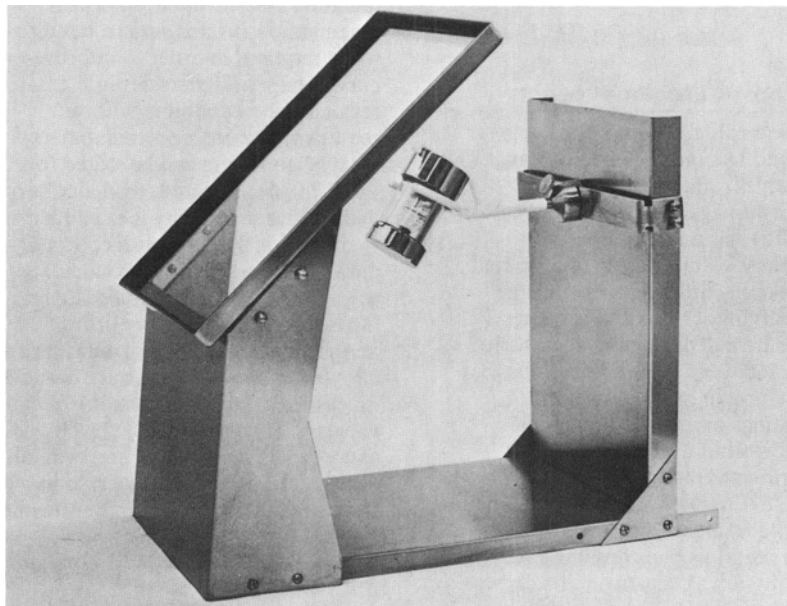
## Complete Imaging System

General Electric Systems has become a single source supplier of nuclear computers and cameras, with the introduction of the computerized "Star" acquisition and analysis system.

Designed to serve as a minimum configuration for the growing number of nuclear medicine needs, the system is engineered for easy upgrade and system integration as new applications and research needs develop. The flexible menu command structure is programmed in English and guides the operator step-by-step.

Complex procedures that require temporal resolution not possible with a camera alone can be performed with the system's comprehensive range of advanced clinical protocols, such as the new P.A.G.E. (program for automatic gated evaluation) and comprehensive ECT.

## Radiation Shield



Nuclear Pacific's radiation dose shield offers safety, versatility, and convenience in an expandable, modular design that allows you to select those features your working environment most requires.

The basic stand consists of a 14 × 18 in. cantilevered frame, vertical stainless steel-clad forward wall, and horizontal work surface.

The forward wall contains 3/8 in. lead lining. The basic unit can be ordered with your choice of glass thickness and density up to 1 in. The unit size is 14 × 25 × 25 in.; the unit weighs 130 lb.—*Nuclear Pacific Inc., 6701 Sixth Ave. South, Seattle, Wa 98108.*

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Tested in over 30,000 patient studies, the fully automatic P.A.G.E. program has been clinically validated as an accurate renal analysis protocol. Tests also reveal it improves anatomic detail: in multigated cardiac studies, including left ventricle volume curve and ejection fraction calculation; in functional images including regional ejection and stroke volume; and in isolated left ventricle images.

The optional ECT (emission computed tomography) software program reconstructs data acquired by the 180 or 360° axial rotation of MaxiCamera 400T, and automatically

corrects the center of rotation. It is also programmed to allow the selection of the number of slices, lines per slice, and starting location.—*GE Medical Systems Division, PO Box 414, W-512, Milwaukee, WI 53201.*

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## Portable Video Imager

The 4000 MP portable video imager is built around a tested multi-lens system. The imager's only

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moving part is an electromagnetically operated shutter. It provides an individual focus for each image position, as each image position has its own lens system.

Because the 4000 MP is an imaging system with no mechanical moving parts, it can take the daily wear of a truly portable system. The 4000 MP is also the smallest imager on the market; it is 9½ in. high, 16 in. wide, and 23 in. deep, making it convenient for either rack mounting or table top use.—*Illinois Imaging Electronics, Inc., 901 S. Kay, Addison, IL 60101.*

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### Diagnostic Imaging Products

A new catalog, "Kodak Products for Medical Diagnostic Imaging," is available from Eastman Kodak.

The 40-page illustrated publication (M5-15) lists and describes the company's films, papers, automated processing equipment, chemicals, intensifying screens and cassettes, exposure and darkroom accessories, silver recovery, and publications that are helpful in medical imaging.

Listings of medical diagnostic imaging films are now organized according to their applications. These include film for CRT and video imaging and radiation monitoring.

The catalog also contains such information as charts on film dimensions in metric and U.S. sizes.—*Health Sciences Markets Division, Eastman Kodak Co., 343 State St., Rochester, NY 14650.*

If your company would like to have a new product considered for review in the *Journal of Nuclear Medicine Technology*, submit detailed information, including the date when the product was released, to: Margaret Phelan, Coordinating Editor, *Journal of Nuclear Medicine Technology*, 475 Park Avenue South, New York, NY 10016; (212)889-0717.

New product releases must be received by October 1, 1981, in order to be considered for review in the December 1981 issue of the *JNMT*.

## What's New in Radioimmunoassay

### RIA Data Reduction System

Micromedic Systems now offers the MACC™ (Micromedic Assay CompuCenter) for use with any of the Micromedic automated gamma counters or the CONCEPT 4 radioassay analyzer. MACC features visual display of data via a CRT screen and a full page print to facilitate assay evaluation. The system allows count data to be edited when required in order to improve curve fitting and provides immediate recalculation capability without requiring recounting or manual data entry. Count data can be stored for up to 7,000 tubes, and, with auxiliary disks, storage capacity is expanded to over 45,000 tubes on-line. Stored data can be recalled and recalculated at any time for a quality check or to evaluate alternating curve fitting methods. Quality control data storage allows trend or drift analysis, based on curve parameters and control values of the last 20 runs of each assay type. After editing and evaluation, data can be directly transferred to the main laboratory computer through RS-232 interface.—*Micromedic Systems, 102 Witmer Rd., Horsham, PA 19044.*

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### Expandable Multidetector Gamma Counter

Packard introduces the MULTI-PRIAS™ AUTO-GAMMA counter. This unit can be delivered with one, two, or four detectors. Later, it can be easily upgraded in the laboratory to increase sample throughput from 50 to 100 or 200 1-min tubes/hr. Even greater productivity is available for counting B<sub>12</sub>/Folate or other dual-labeled tests by expansion to two channels.

The microprocessor heart of the counter offers a number of new features. It is the first benchtop counter with a video screen. This provides user instructions for operating the instrument as well as rapid programming, service diagnostics, and a complete data display. When the counter is not being used, it calibrates itself and continuously monitors background to assume perfect counting conditions for the

next time it is used. A special quality control printout automatically checks for the correlation between detectors, for repeatability by Chi-square, and for possible detector contamination. A unique function, Prio-STAT™, allows the unit to be used as a manual well even if the counter is automatically processing an assay.—*Packard Instrument Co., 2200 Warrenville Rd., Downers Grove, IL 60515.*

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### RIA for Serum Acid Phosphatase

Becton Dickinson announces a new RIA kit for the measurement of serum acid phosphatase levels. The test was developed to monitor the efficacy of therapy for prostatic carcinoma as well as to confirm diagnosis of this disease.

This PAP test uses an I-125 RIA technique to specifically and sensitively measure acid phosphatase originating from the prostate.

This test offers advantages over existing PAP RIA kits. For example, sensitivity obtained in only 4 hr is superior to existing kits that require an overnight procedure. This superior sensitivity—of 0.5 ng PAP/mL serum—provides greater confidence in normal values. Changes in PAP levels can be accurately discriminated with the higher counts and steeper slope provided by the assay.—*Becton Dickinson Immunodiagnostics, Mountain View Ave., Orangeburg, NY 10962.*

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### PAP Monograph

A four-page monograph on the normal range in prostatic acid phosphatase RIA testing is offered by Clinical Assays.

The monograph describes what PAP normal range is and how it is established. The importance of interpreting the normal range—in relation to both the definition of normality and the particular testing method used—is stressed.—*Marketing Communications, Clinical Assays, Div. of Travenol Laboratories, Inc., 620 Memorial Drive, Cambridge, MA 02139.*