

What's New

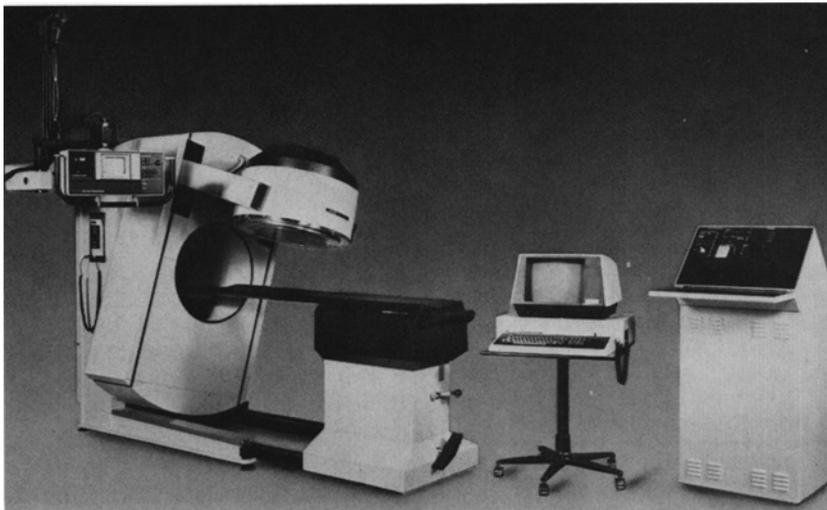
Every description of the products described below was condensed from information supplied by its manufacturer. The reviews are published as a service to the professionals working in the field of nuclear medicine and their inclusion does not in any way imply an endorsement by the Editorial Board of the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

ECT Camera System

Raytheon Medical Systems is introducing the Spectrum 91 ECT Gamma Imaging System. The system incorporates a fourth generation high performance detector (16.5 in. UFOV, 91 2 in. Hamamatsu PMTs, and high speed front end with variable linearity adjusting circuitry. This is a "robotic" emission computed tomography system that utilizes four CPUs to control gantry rotation simultaneously and independently.

Other features include detector angle/parallelity and in/out motions. Raytheon adds that this ultra stable high precision device produces true body contoured acquisition over 360° (\pm .1%) for circular and elliptical orbiting.

The center axis of rotation is unchanged during body contouring, and the gantry's intelligence can trace/repeat an operator-defined contour specific to the patient being examined. This contour teaching procedures takes about 2 min, and adds a safety factor to ECT orbiting.



A "through the hole" design permits full body ECT acquisition without compromise; in addition, it will permit a single pass whole body scanning option planned for next year. The system preserves routine nuclear imaging capability, and the lack of rear-project-

ed counterbalancing preserves department space while providing full 511 keV and collimator spectrum imaging capacity.—Raytheon Medical Systems, 2020 North Janice Ave., Melrose Park, IL 60160.

Circle Reader Service No. 51

Thyroid Uptake System

Using microcomputer technology, the ND62T Thyroid Uptake System from ND Medical Products measures the amount of radioactivity emitted during thyroid metabolism and compares it with the total iodine dosage administered. The relative percentage uptake is calculated and displayed immediately on the system video display screen or on a paper print-out. Since the entire procedure takes only minutes, the physician can review the results immediately, and request repeat tests, if necessary to verify results, while the patient is still in position.

According to company officials, the ND62T is virtually a fool-proof system. A customized aligning guide positions the system probe at the proper distance and angle from the patient's throat. The computer interacts with the operator during calibration and set-up, confirming through visual prompts on the display screen that the system is properly prepared for use. Patient record files can be recorded and stored, eliminating the need

to re-enter basic patient information for additional tests. The system adjusts for normal isotope decay schemes automatically to avoid thyroid study errors.—ND Medical Products, 221 Felch St., Ann Arbor, MI 48103.

Circle Reader Service No. 52

Microcomputer for Patient Records

Trinity Computing Systems has introduced a microcomputer network designed to improve management of patient information in the imaging department. The system is based on the IBM PC microcomputer and the Nestar local area network; several independent IBM PCs can be networked together throughout a department. The system offers order entry of imaging examinations. Patient information only needs to be entered once. All the information is stored in the computer and is on-line for whenever any member of the health care team wants to retrieve the patient's imaging information.

Imaging reporting may also be done on

the system. A transcriptionist can use the order number of an exam to bring up a patient's current file, and then add the physician's dictated report to the file, stored as either a final or preliminary report. The report is available for 30 days, and printed copies of it can also be obtained.

The company adds that the system offers many benefits to an imaging department; it is easy to install and operate, so that any staff member may use it, and it may be implemented in any size hospital. Fewer lost, misfiled, and duplicated records are said to result.—Trinity Computing Systems, 1020 Holcombe Blvd., Suite 408, Houston, TX 77030.

Circle Reader Service No. 53

Disposable Injection Kits

Baird Corporation announces the availability of a kit that provides necessary materials for the intravenous administration.
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tion of radiopharmaceuticals in Tl-201, gated equilibrium, or first-pass cardiac imaging, in one convenient package. Principal components in the 24-item kit are a three-way stopcock with extension



tubing, 18-gauge angiocath, three syringes, luer lock adapters, exam gloves, assorted gauze pads, etc.—*Baird Corporation, Nuclear Medical Division, 125 Middlesex Turnpike, Bedford, MA 01730.*

Circle Reader Service No. 54

Two from Nuclear Associates

The gamma survey instrument calibrator permits the safe calibration of survey equipment with ranges up to 2000 mR/hr. It consists of a heavy-duty lead container that holds 165 mCi of Cs-137, encapsulated at one end of a control rod. The source is kept in either of two positions: stored or exposed. In the fully-shielded "stored" position, surface radiation is less than 200 mR/hr; at one meter, it's less than 10 mR/hr. In the "exposed" position, the radiation field can be varied by three built-in attenuators that permit calibration of three meter scales, each at 20% and 80% of full scale, using only one source-to-meter distance measurement. For safety, the cesium source cannot be removed from its shield except by the manufacturer. A built-in tape measure helps determine the distance from the cesium source to the instrument being calibrated.

Circle Reader Service No. 55

The multi-dosimeter calibrator allows the simultaneous testing of up to six direct-reading pocket dosimeters. It consists of a plastic cylinder that has six holes around a central, hermetically-sealed, 9 μ Ci Cs-137 source that requires no license. The procedure for checking that a dosimeter is working properly is very simple. Properly-charged and zeroed dosimeters are placed in the holes and exposed for the required period of time, depending on their range. Typically, a 6-hr exposure of a properly calibrated 200-mR dosimeter

will yield readings from 25 to 35 mR.—*Nuclear Associates, Division of Victoreen, Inc., 100 Voice Rd., Carle Place, NY 11514.*

Circle Reader Service No. 56

EG&G ORTEC Catalog

EG&G ORTEC has published a new, 370-page catalog for nuclear radiation detection, measurement, and analysis instrumentation, detailing applications as well as performance specifications for the company's products. Products include charged-particle detectors, photon detectors, scintillation and special detectors, multichannel analyzers, and nuclear data acquisition and analysis systems.—*EG&G ORTEC, 100 Midland Rd., Oak Ridge, TN 37830.*

Circle Reader Service No. 57

Image Acquisition/Data Storage

ADAC Laboratories has introduced two new nuclear medicine products; the first is an image acquisition module, the DPS-3120, which is said to provide cost-

effective image acquisition capability using the Motorola 68000 microprocessor and connects to ADAC's PACnet network. The second is a network digital data storage system that uses a laser disk and is capable of archiving an average of 1000 nuclear medicine studies on a single disk cartridge at an average cost of less than 30¢ per study for storage media.—*ADAC Laboratories, 255 San Geronimo Way, Sunnyvale, CA 94086.*

Circle Reader Service No. 58

Silver Recovery Aide

Silverscan from National Instrumentation Corp. is a low cost, precision instrument for accurately and efficiently determining the silver content of fixer solutions, thereby pinpointing silver loss and increasing silver recovery yield. The device monitors the silver content of overflow from a silver recovery unit, thus allowing adjustment of the recovery unit's amperage to reduce silver loss.—*National Instrumentation Corporation, PO Box 607, Southfield, MI 48037.*

Circle Reader Service No. 59

What's New in Radioimmunoassay

Multiple-User Gamma Counter

The GammaTrac™ 1193 Automatic Gamma Counting System offers multiple user/multiple isotope capabilities with optimization of counting parameters. Two simultaneous counting channels allow counting of single label, dual label, or intermixed samples.

A built-in RIA data processor stores up to 12 different RIA, screening, and raw data protocols. Up to 12 standard curves, with up to 20 points each, can be stored, edited, and plotted. Programming is accomplished through self-prompting conversation via an optional RS-232-C compatible readout device.—*Thomas F. Steiger, Communications Manager, TM Analytic, Inc., 1842 Brummel Drive, Elk Grove Village, IL 60007.*

Circle Reader Service No. 60

17-Alpha-Hydroxyprogesterone

A new test set for measurement of serum/plasma 17-alpha-hydroxyprogesterone is available from Wien Laboratories. The assay incorporates an I-125 tracer, a specific antibody (which eliminates the need for chromatography), and a convenient second antibody separation. The procedure requires a simple methylene

chloride extraction, with a sample size of 100 μ l, and a 45-min first antibody incubation, followed by a 30-min second antibody separation. Reagents are color-coded and results are obtainable within 4 hr.—*Wien Laboratories, Inc., PO Box 227, Succasunna, NJ 07876.*

Circle Reader Service No. 61

24-Well Gamma Counter

Hybritech Inc. announces availability of the gamma-PHOTON™ system for isotopic immunoassays. The solid-state 24-well counter permits sample throughput of more than 500 tubes per hr, and provides for automated data reduction using a Hewlett-Packard 87XM computer.

Gamma-PHOTON includes comprehensive data reduction routines for conventional competitive-binding RIAs and for screening assays such as hepatitis. Features include software that provides both tutorial-style prompting and rapid protocol access. An 80-column CRT displays real time cpm in bar chart format for each of the 24 wells. This permits on-line analysis of an assay in progress.—*Hybritech Inc., 11085 Torreyana Rd., San Diego, CA 92121.*

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