

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 Journal of Nuclear Medicine Technology or by the Society of Nuclear Medicine.

Posters on Safe Handling of Nuclides

New England Nuclear has produced a series of eight posters that outline the safe handling of various nuclides used in research and medicine.

A 34 × 22 in. nuclides safe handling chart includes physical data, occupational limits, dosimetry, and special precautions for tritium, iodine-125, iodine-131, sodium-22, carbon-14, phosphorus-32, sulfur-35, calcium-45, and chromium-51. The poster, a three-color chart, is designed for labs, health physics offices, and other areas where nuclides are used.

Seven individual posters are also available; they include the same information as the nuclides safe handling chart, as well as a more detailed discussion of handling precautions. Each poster covers one nuclide, including: tritium, carbon-14, sulfur-35, technetium-99m, thallium-201, gallium-67, and molybdenum-99.

The posters are available free upon request.—*New England Nuclear, 549 Albany St., Boston, MA 02118.*

Circle Reader Service No. 66

Compact Imager Improved

IIE announces the latest development in its 4000 compact imager. The imager, approximately one year old, is the smallest and least expensive on the market. It features a fixed, multilens system, whose only moving part is an electromagnetically-operated shutter. The advantage of the multifixed lens system is that if a shutter fails, the remaining lens assemblies are still operational, which makes for a highly reliable multiformat camera.

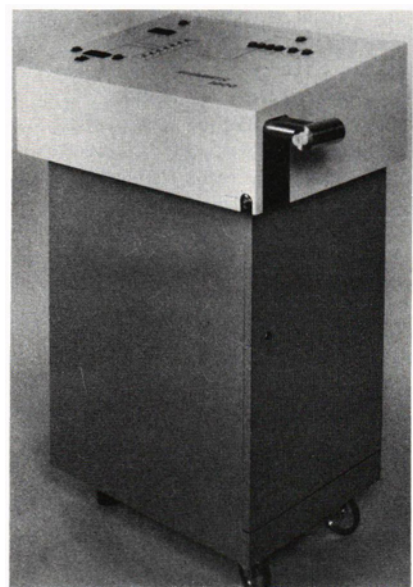
The new improvement is an "Instant-On" feature, designed particularly for portable applications. A previous problem—waiting for the monitor to warm up and become stable—has been resolved. The instant-on feature provides two solutions to this problem: (1) in strictly portable applications, a self-contained battery provides power to the monitor, keeping it stabilized as the unit is moved from bedside to bedside (at bedside, the unit needs only to be plugged in and is instantly operational);

Xenon Gas Delivery System

Diversified Diagnostic Products, Inc. introduces the new xenomatic series of xenon gas delivery systems.

The model 3000 is the first unit available that allows xenon studies of patients on respirators or breathing-assist devices such as IPPB machines. In addition its O₂ monitoring and precision O₂ replenishment system allows studies of patients on increased O₂ levels. This considerably expands the diagnostic capability of lung ventilation studies with Xe-133 and technologists will find the xenomatic easy to operate because of the automatic electronic functions built into the unit.—*Diversified Diagnostic Products, Inc., 7007 Brittmoore, No. 15, Houston, TX 77041.*

Circle Reader Service No. 65



and (2) the instant-on feature also applies to a plugged-in unit. The monitor will be kept warm, with the screen blanked, while the rest of the system is off.—*IIE, Marketing Dept., 901 S. Kay, Addison, IL 60101.*

Circle Reader Service No. 64

Mobile Xenon Gas Unit

RADX Corp. announces its Ventil-Con II Xe-133 system with O₂ bottle holder and mobility handles. This new option, along with complete built-in lead shielding for total radioactive safety, makes this the only self-contained mobile unit on the market.

Other features include a bacteriological filter and CO₂ absorber within the spirometer breathing system, which constantly filters the xenon-enriched atmosphere the patient breathes. Breathing resistance is only 0.2 in. of water, which averts disconnections or aborted procedures caused by breathing resistance.

The charcoal cartridge pack, which traps xenon gas exhausted from the patient at washout, is coupled with a built-in alarm that alerts the technologist if more than 2 μ Ci/l attempts to escape

(well below NRC maximum). A built-in interface within the breathing apparatus completely controls the xenon gas flow into the charcoal cartridge. As a result, more procedures may be safely conducted with Ventil-Con II, reusing stored gas, than with any other system. An illustrated brochure and price list are available on request.—*RADX Corp., 1390 West Belt Drive, Houston, TX 77043.*

Circle Reader Service No. 62

Video Imaging Camera

RADX also announces a state-of-the-art, high resolution video imaging camera. For use with nuclear medicine video monitoring equipment, the new camera system can produce up to 2,300 film transparency images 2.6 × 3.4 in. from one magazine loading. There are no stops until the take-up cassette is full but the cassette can be removed after one or up to 180 exposures have been made.

The camera also offers a choice of two image sizes: 2.6 × 3.4 in. or 3.6 × 4.8 in. The 6-in. flat face blue phosphor video tube provides sharp resolution through an 800-line vertical resolution

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monitor from color or black and white signals.—RADX Corp., 1390 West Belt Drive, Houston, TX 77043.

Circle Reader Service No. 63

Nuclear Cardiology Phantom

Amersham announces the new Amersham Vanderbilt cardiac phantom, a dynamic cardiac simulator for standardization of ejection fraction and wall motion measurement in gated blood pool studies.

The cardiac phantom provides a dynamic simulation of the beating left atrium and ventricle at variable heart rates. A static background of varying thicknesses represents the right heart, aorta, and general background. An ECG trigger pulse is generated for each simulated heart beat. The phantom provides standardized patient input with known ejection fractions (25%, 50%, and 75%), known wall motion, distances, and known rate (from 20 to 200 beats/min).

For quality control, the phantom provides a complete check of both hardware and software, supplying a standard for consistency checking. It can assist in validating an entire nuclear cardiology system under all conditions of operation before use in an actual diagnostic situation. It can also provide a standard for meaningful intercomparison of various available hardware and software systems, furnishing information on their relative ease of use, flexibility, and accuracy.—Amersham Corp., 2636 S. Clearbrook Drive, Arlington Heights, IL 60005.

Circle Reader Service No. 67

Access to Reports by Telephone

Sudbury Systems, Inc. introduces the RTAS IV radiology reporting system, featuring instant access to reports. As soon as the radiologist or nuclear medicine physician dictates a report, the referring physician can listen to it from any telephone inside or outside the hospital.

The RTAS IV supercedes the previous system because of significantly enhanced storage capacity, access speed, and operational features. Other features include unlimited simultaneous access by all dictators and all transcriptionists, automatic normal reports, and selective transcriber access by the dictator of patient identification. RTAS is completely modular to allow for easy expansion and it can be functionally interfaced to word processing systems.—Sudbury Systems, Inc., 80 Union Ave., Sudbury, MA 01776.

Circle Reader Service No. 68

What's New in Radioimmunoassay

Beta-hCG Chart for Typical Values in Pregnancy

Clinical Assays, Division of Travenol Laboratories, Inc., is making a chart of typical "Beta-hCG Values in Pregnancy" available.

The chart, which expresses values of human chorionic gonadotropin in terms of the World Health Organization's 1st International Reference Preparation (1st IRP), is the result of a clinical study of healthy pregnant women conducted by Professor K. Thomas, MD, of the Catholic University, Brussels, Belgium. Both tabular and graphic representations of the data from the study are shown.

Copies of the chart, a useful reference tool for clinicians and laboratorians alike, are available upon request.—Marketing Communications, Clinical Assays, Div. of Travenol Laboratories, Inc., 620 Memorial Drive, Cambridge, MA 02139.

Circle Reader Service No. 70

Radioassay Controls

Immu-Trace™ Tri-Rac® radioassay controls are three human serum-based products for use in quality control of radioassay systems for a number of clinically important compounds. Low, intermediate, and high levels are provided for each of these assayed constituents with values within the range of clinical interest. The assay values of these controls are established by replicate analyses using commonly available assay systems. Some of the key features are: one tri-level control with 27 constituents, including CEA; RIA control of 360 methodologies and 44 manufacturers; three distinct control levels: low, intermediate, and high; convenient 7-day post-reconstituted stability; and a QAP with large, statistically meaningful data base.—American Dade, Div. of American Hospital Supply Corp., PO Box 520672, Miami, FL 33152.

Circle Reader Service No. 71

Rapid Insulin Assay

A new, fast RIA for the quantitative determination of insulin in serum or plasma is available from Damon Diagnostics.

This sensitive and specific assay aids in detection and classification of diabetes; investigation of hypoglycemic conditions and obesity with suspected adrenal syndrome; and diagnosis of insulinoma.

INSIK-5 is performed on 100 μ l of sample with 1.5-hr incubation at room temperature. Use of an accelerated double-antibody precipitating reagent permits a faster, easier, and more precise separation of B/F insulin. A human serum control is provided for customer convenience. Sensitivity of the assay is 2.5 μ U/ml. Shelf life of the kit is eight weeks.

The 100-test insulin kit contains: I-125 labeled insulin, insulin standards precalibrated against WHO 66/304, insulin antiserum, precipitating reagent, and a human serum control. All reagents are color-coded.—Damon Diagnostics, 115 Fourth Ave., Needham Heights, MA 02194.

Circle Reader Service No. 72

Kinetic RIA System

A new, benchtop computer-based RIA system that automatically processes samples, counts, and reduces data for up to 48 reactions in a single batch has been introduced by Medical and Scientific Designs, Inc.

The KinetiCount 48 Radioimmunoassay System features simultaneous control and kinetic monitoring of all 48 reactions, using a proprietary solid-phase antibody. Total assay time is reduced by a factor of five, thus improving lab productivity.

Measuring only $24\frac{1}{2} \times 25 \times 13\frac{1}{2}$ in., the KinetiCount 48 offers a full line of high volume test kits, including digoxin, T_3 uptake, total T_3 and total T_4 , and doubles as a general purpose 48-head gamma counter to eliminate lab bottle-necks.—Medical and Scientific Designs, Inc., 273 Weymouth St., Rockland, MA 02370.

Circle Reader Service No. 75

New product releases must be received by January 7, 1983, in order to be considered by the Editorial Board of the *Journal of Nuclear Medicine Technology* for a possible listing in the March Journal's "What's New" section. Send new product releases to the Coordinating Editor, *Journal of Nuclear Medicine Technology*, 475 Park Ave. South, New York, NY 10016.