

PROCEEDINGS OF 24th ANNUAL MEETING

IMAGING WITH POSITRONS: COMPUTED AXIAL TOMOGRAPHY AND QUANTITATIVE RECTILINEAR SCANNING. Edward J. Hoffman, Michael E. Phelps, and David E. Kuhl.

COMPUTERS IN NUCLEAR MEDICINE. A.B. Brill, J.J. Erickson, R.R. Price, and B. Maskewitz.

DISPLAY SYSTEMS FOR GAMMA CAMERAS. Robert T. Anger, John G. Allen, and James E. Carey.

THE TOMOGRAPHIC SCANNER: PRINCIPLES OF OPERATION. Hal O. Anger.

A FIELD PROCEDURE FOR QUANTITATIVE ASSESSMENT OF GAMMA CAMERAS. Thomas K. Lewellen, Robert Murano, and David Williams.

RADIOASSAY

A NEW DYNAMIC RADIOIMMUNOASSAY METHODOLOGY FOR SERUM TRIIODOTHYRONINE AND HUMAN THYROID STIMULATING HORMONE. Anthony L. Mazzola.

PROGRAM GENERATED QUALITY CONTROL INDICES IN RIA. William J. Pikhosh and Sidney Soloway.

A DOUBLE ANTIBODY SOLID PHASE (DASP) SEPARATING SYSTEM FOR RADIOIMMUNOASSAYS. G.J.M. Tevaarwerk, D.A. Boyle, C. Hurst, I. Anguish, and P. Uksik.

A SUPERIOR PERFORMANCE STANDARD FOR I-125 COUNTERS. Marion M. Satterfield.

QUALITY PERFORMANCE CRITERIA FOR ASSESSING THE TECHNICAL ADEQUACY OF RADIORECEPTOR ASSAYS. John R. Prince, Walter G. Dukstein, William E. White, Charlotte Ament, and Ruth Koelliker.

RADIOPHARMACEUTICAL SCIENCE

A DEVICE FOR EFFICIENT TRANSFER AND UNIT DOSE PACKAGING OF XENON-127. Richard J. Kowalsky.

A STUDY OF THE PHYSICAL AND CHEMICAL PROPERTIES OF RADIOCOLLOIDS. Ann Warbick, Albert S.K. Chan, and Gunes N. Ege.

PRODUCTION AND USE OF Br-77 NUCLEAR MEDICINE. Allan H. Gobuty, Linda R. Norton, Jay A. Spicer, Hal A. O'Brien, and Buck A. Rhodes.

AN EVALUATION OF THE SINGLE PATIENT DOSE CONCEPT IN NUCLEAR MEDICINE. F. David Rollo and Royce Fishman.

A COMPARATIVE EVALUATION OF Tc-99m GLUCOHEP-TONATE. Tc-99m DTPA AND Tc-99m PERTECHNETATE AS BRAIN IMAGING AGENTS. F. David Rollo and Mark L. Born.

CLINICAL IMPORTANCE OF TIN IN COMMERCIALY AVAILABLE BONE IMAGING KITS. Peggy Joe, G.T. Krishnamurthy, John S. Endow, M. Tubis, and W.H. Bland.

MISCELLANEOUS

SCINTIANGIOGRAPHIC APPEARANCE OF THE VERTEBRAL ARTERY. John F. Rockett and Mohammed Moinuddin.

TESTICULAR RADIONUCLIDE ANGIOGRAPHY AND STATIC IMAGING: ANATOMY, SCINTIGRAPHIC INTERPRETATION, AND CLINICAL INDICATIONS. Lawrence E. Holder, Edwin R. Holmes, III, Joseph R. Martire, and Henry N. Wagner, Jr.

DOES THYROID SCANNING WITH I-123 DELINEATE ANTERIOR NONFUNCTIONING THYROID NODULES? Peter F. Winter, Peter D. Esser, and Philip M. Johnson.

FLOW STUDIES IN EVALUATION OF CHEST DISEASE. Ralph S. Wolfstein.

NUCLEAR MEDICINE, DIAGNOSTIC RADIOLOGY AND THE TNM STAGING OF MALIGNANCY. Seth A. Borg, Philip Rubin, and Robert E. O'Mara.

IMAGING SITES OF AIRWAY OBSTRUCTION AND MEASURING FUNCTIONAL RESPONSE TO THERAPY IN ASTHMA. George V. Taplin, Sawtantra K. Chopra, Donald P. Tashkin, Dennis Elam, and Mary Lee Griswold.

XENON-127 LUNG VENTILATION PROCEDURE. William H. McCartney and J. Randolph Perry.

CASE OF THE DAY. Edward V. Staab and C. Leon Partain.

TRH STIMULATION TEST: CLINICAL USES AND SPECIAL APPLICATIONS. Fuad S. Ashkar.

DYNAMIC LUNG SCANS--THE "INFUSION COMPONENT". George W. Evans, James H. Kieran, and Sheila M. Williamson.

TECHNOLOGISTS' SCIENTIFIC PROGRAM

The following papers have been accepted for the Technologists' Scientific Program. Complete abstracts may be found in the June issue of the *Journal of Nuclear Medicine Technology*.

MONDAY, 4:00 p.m.-5:30 p.m.

JOHN EVERS THEATRE

SUBMITTED PAPERS I

GALLIUM-67 CAMERA IMAGING SPECTROMETRY. Elbert L. Lands, University of Chicago Hospitals and Clinics, Chicago, Ill.

A COMPUTERIZED ENHANCED SUBTRACTION TECHNIQUE FOR Ga-67 SCANNING. Dayton A. Rich, Vijay M. Dhawan, John J. Sziklas, and Richard P. Spencer, Hartford Hospital, Hartford, Conn.

"COLD-SPOT" TECHNIQUE AND ENHANCEMENT OF IMAGE QUALITY IN PANCREATIC SCANNING. George Lis, Said M. Zu'bi, John P. Sullivan, and Suresh M. Brahmavar, Baystate Medical Center, SH-WW Unit, Springfield, Mass.

FLUORESCENCE THYROID SCANNING: PROPER SELECTION OF ENERGY WINDOW. Michael V. McCormick, Heinz W. Wahner, and Alan L. Orvis, Mayo Clinic and Mayo Foundation, Rochester, Minn.

A DYNAMIC HEART MODEL FOR THE ASSESSMENT OF VENTRICULAR TIME ACTIVITY CURVES. Edward Raab, Edward Nicoloff, Henry Manspeaker, Bertram Pitt, and Henry Wagner, Jr., Johns Hopkins Hospital, Baltimore, Md.

LONGITUDINAL MULTIPLANE EMISSION TOMOGRAPHY (PHO/CON, SEARLE RADIOGRAPHICS, INC.)--PROBLEMS FACING THE TECHNOLOGIST. Terry Brown, Charles Armstrong, Barry S. Brunnsden, and Elbert L. Lands, University of Chicago Hospitals and Clinics, Chicago, Ill.

THE TOMOSCANNER WITH MULTIANGLE READOUT METHOD. Audrey M. Samuel, University of California, San Francisco, Calif.

DUAL INDEPENDENT PHOTOPEAK ANALYZER PERFORMANCE FOR A MULTIPLANE TOMOGRAPHIC SCANNER. Alnoor H. Koorji, Ernesto V. Garcia, and August Miale, Jr., Division of Nuclear Medicine, University of Miami School of Medicine, Miami, Fla.

TUESDAY, 2:00 p.m.-3:15 p.m. JOHN EVERS THEATRE

SUBMITTED PAPERS II

COMMERCIAL QUALITY CONTROLS AND TARGET VALVES FOR RADIOIMMUNOASSAYS. Rebecca Washburn, Jo-ann Dalton, Suresh M. Brahmavar, and Said M. Zu'bi, Baystate Medical Center, SH-WW Unit, Springfield, Mass.

COMPARISON OF THREE KIT METHODOLOGIES FOR THE MEASUREMENT OF SERUM TRIIODOTHYRONINE. Helen H. Mikesell, Eileen L. Nickoloff, and Wayne Kasecamp, The Johns Hopkins Medical Institutions, Baltimore, Md.

CLINICAL APPLICATIONS OF PROLACTIN BY RADIOIMMUNOASSAY. Judy Williams, The Methodist Hospital, Houston, Tex.

HUMAN SERUM FERRITIN ASSAY--AN EVALUATION OF A COMMERCIAL KIT. K. Tripses, N. Clark, K. Kirchoff, and L. Padellford, Iowa Methodist Medical Center, Des Moines, Ia.

A MODEL INFECTION CONTROL PLAN FOR A NUCLEAR MEDICINE LABORATORY. Theodore Sorandes, University of Maryland Hospital, Baltimore, Md.

EFFECT OF REDUCED Tc ON IMAGING WITH THE SCINTILLATION CAMERA. Lynne M. Koester, Patricia Frank, and Mary Ann Leeper, Searle Laboratories, Skokie, Ill.

EVALUATION OF COMMERCIAL Tc-99m-MAA RADIOPHARMACEUTICALS. Kathy Baron, Bonnie Clay, A. Michael Zimmer, and Dan G. Pavel, University of Illinois Medical Center, Chicago, Ill.

WEDNESDAY, 2:00 p.m.-3:30 p.m. JOHN EVERS THEATRE

SUBMITTED PAPERS III

QUALITY ASSURANCE OF PATIENT CARE. Elaine D. Pritchard, Kaiser-Permanente Medical Center, San Francisco, Calif.

AN EFFECTIVE MEANS OF SCHEDULING SIMULTANEOUSLY ORDERED NUCLEAR MEDICINE AND RADIOGRAPHIC EXAMS. L. David Wells, Ralph G. Robinson, and Buck A. Rhodes, Kansas University Medical Center, Kansas City, Kans.

RELOCATING A NUCLEAR MEDICINE LABORATORY. S.A. Kuhn, Iowa Methodist Medical Center, Des Moines, Ia.

DESIGN CRITERIA FOR A NUCLEAR MEDICINE DEPARTMENT. Janice C. Honeyman, University of Virginia Medical Center, Charlottesville, Va.

SPECTRUM OF TECHNICAL FACTORS AFFECTING THALLIUM-201 AND Tc-99m PYROPHOSPHATE IMAGING IN ACUTE MYOCARDIAL INFARCTION. Linda M. Pytlik, Harvey J. Berger, Alexander Gottschalk, and Barry L. Zaret, Yale University, New Haven, Conn.

LEFT VENTRICULAR EJECTION FRACTIONS USING A MULTI-CRYSTAL SCINTILLATION CAMERA. Kathryn Wilkins and Lionel Reese, St. Joseph's Hospital, University of Western Ontario, London, Ont., Canada

TECHNICAL REQUIREMENTS IN ECG-GATED HEART STUDIES PERFORMED AT REST AND DURING EXERCISE. Bonnie A. Mack, Jeffrey S. Borer, Michael V. Green, Stephen L. Bacharach, and Gerald S. Johnston, National Institutes of Health, Bethesda, Md.

EXERCISE TECHNIQUES FOR RADIONUCLIDE ANGIO-CARDIOGRAPHY. Bryce B. Bates, Stephen K. Rerych, and Robert H. Jones, Duke University Medical Center, Durham, N.C.

THURSDAY, 4:00 p.m.-5:30 p.m. JOHN EVERS THEATRE

SUBMITTED PAPERS IV

THE ACIDIFIED GASTROESOPHAGEAL SCINTISCAN, A RAPID TEST FOR THE DETECTION OF GASTROESOPHAGEAL REFLUX. Leon S. Malmud, Robert S. Fisher, John P. Capuzzi, Carol Grabowski, and N. David Charke, Temple University Hospital, Philadelphia, Pa.

DIAGNOSIS OF COLD THYROID NODULES WITH RADIO-NUCLIDE SCANS AND ULTRASOUND. Theresa Ciez, Grant Hospital, Chicago, Ill.

METHOD FOR PERFORMING Tc-99m PERTECHNETATE THYROID UPTAKE. Theodore Sorandes, University of Maryland Hospital, Baltimore, Md.

SIMULTANEOUS DUAL ISOTOPE SCHILLING TEST. Clement J. Stankiewicz, John L. Giga, Frederick L. Weiland, and Robert F. Carretta, Wilford Hall USAF Medical Center, Lackland AFB, Tex.

TECHNICAL ASPECTS OF I-125 FIBRINOGEN TESTING FOR THE DETECTION OF DEEP VENOUS THROMBOSIS. Vincent L. Sgroi and Kenneth M. Moser, Pulmonary Division, UCSD School of Medicine, San Diego, Calif.

DEEP AND SUPERFICIAL VENOUS THROMBOSIS BY RADIO-NUCLIDE VENOGRAPHY. Ken Barat and Charles Schwab, Division of Nuclear Medicine, Kansas City College of Osteopathic Medicine, Kansas City, Mo.

COMPARISON OF I-131 AND I-131 AND I-125 LABELED FIBRINOGEN FOR MONITORING RENAL ALLOGRAFTS. Theodore Sorandes, James Quinlan, and Michael Loberg, University of Maryland Hospital, Baltimore, Md.

INCREASED SPECIFICITY OF GALLIUM SCANS BY LIVER SUBTRACTION TECHNIQUE. Linda M. Thorson, Gilbert P. Becker, and Heinz W. Wahner, Mayo Clinic and Mayo Foundation, Rochester, Minn.