

**ADJUNCTIVE MEDICAL KNOWLEDGE**

DETERMINING THE VALUE OF DIAGNOSTIC AND SCREENING TESTS  
 Barbara J. McNeil and S. James Adelstein ..... 439

**DIAGNOSTIC NUCLEAR MEDICINE**

DIAGNOSIS OF CIRRHOSIS AND HEPATITIS BY QUANTITATIVE HEPATIC AND OTHER  
 RETICULOENDOTHELIAL CLEARANCE RATES  
 Sally J. DeNardo, George B. Bell, Gerald L. DeNardo, Robert F. Carretta, Paul O. Scheibe,  
 Thomas J. Imperato, and Peter E. Jackson ..... 449

SUBSEQUENT FERTILITY AND BIRTH HISTORIES OF CHILDREN AND ADOLESCENTS  
 TREATED WITH <sup>131</sup>I FOR THYROID CANCER  
 Salil D. Sarkar, William H. Beierwaltes, Satinder P. Gill, and Betty J. Cowley ..... 460

SPECIFICITY OF <sup>99m</sup>Tc-PERTECHNETATE IN SCINTIGRAPHIC DIAGNOSIS OF  
 MECKEL'S DIVERTICULUM: REVIEW OF 100 CASES  
 Thomas H. Berquist, Nicholas G. Nolan, David H. Stephens, and Harley C. Carlson ..... 465

INTESTINAL CONCENTRATION OF <sup>99m</sup>Tc-PERTECHNETATE INTO ISOLATED LOOPS OF  
 RAT BOWEL  
 Andrew T. Taylor, Jr., Naomi Alazraki, and James E. Henry ..... 470

TECHNIQUES FOR POSITRON SCINTIGRAPHY OF THE BRAIN  
 B. Hoop, D. J. Hnatowich, G. L. Brownell, T. Jones, K. A. McKusick, R. G. Ojemann,  
 J. A. Parker, R. Subramanyam, and J. M. Taveras ..... 473

**RADIOCHEMISTRY AND RADIOPHARMACEUTICALS**

SURVEY OF RADIOACTIVE AGENTS FOR IN VITRO LABELING OF PHAGOCYTTIC  
 LEUKOCYTES. I. SOLUBLE AGENTS  
 John G. McAfee and Mathew L. Thakur ..... 480

SURVEY OF RADIOACTIVE AGENTS FOR IN VITRO LABELING OF PHAGOCYTTIC  
 LEUKOCYTES. II. PARTICLES  
 John G. McAfee and Mathew L. Thakur ..... 488

**INSTRUMENTATION AND PHYSICS**

DESIGN AND PERFORMANCE CHARACTERISTICS OF A WHOLE-BODY POSITRON  
 TRANSAXIAL TOMOGRAPH  
 Edward J. Hoffman, Michael E. Phelps, Nizar A. Mullani, Carol S. Higgins, and  
 Michel M. Ter-Pogossian ..... 493

**IN VITRO NUCLEAR MEDICINE**

SIMPLE RADIOMETRIC TECHNIQUES FOR RAPID DETECTION OF HERPES SIMPLEX  
 VIRUS TYPE 1 IN WI-38 CELL CULTURE  
 Nancy D'Antonio, Min-Fu Tsan, Patricia Charache, Steven Larson,  
 and Henry N. Wagner, Jr. .... 503

**PRELIMINARY NOTE**

DOUBLE-LABELING OF EXPERIMENTAL ACUTE MYOCARDIAL INFARCTS WITH  
<sup>113m</sup>In- AND <sup>99m</sup>Tc-EDTMP  
 B. Leonard Holman, Alun G. Jones, Michael A. Davis, Joseph Askenazi,  
 and Peter R. Maroko ..... 508

**BOOK REVIEWS**

INTERNATIONAL ENCYCLOPEDIA OF PHARMACOLOGY AND THERAPEUTICS.  
 SECTION 79: SULFUR-CONTAINING RADIOPROTECTIVE AGENTS  
 Reviewed by Glenn V. Dalrymple ..... 512

MEDICAL NEUROLOGY  
 Reviewed by William H. Oldendorf ..... 512

PEDIATRIC NUCLEAR MEDICINE  
 Reviewed by Judith Ellen Ho ..... 512

INTRODUCTION TO NUCLEAR IMAGING INSTRUMENTATION  
 Reviewed by Guy H. Simmons ..... 513

**ABSTRACTS OF CURRENT LITERATURE** ..... 514

**PROCEEDINGS OF THE 23RD ANNUAL MEETING**

NUCLEAR MEDICINE PIONEER CITATION, 1976: DAVID E. KUHL, M.D. .... 518

EDITORIAL ..... 521

ABSTRACTS FOR SCIENTIFIC PROGRAM ..... 522

TECHNOLOGISTS' SCIENTIFIC PROGRAM ..... 568

AUTHOR INDEX ..... 569

**CALENDAR** ..... 574, 576

**PLACEMENT** ..... 89A, 90A

