

EDITORIAL 1

ARTICLES

⁶⁷GALLIUM IN 68 CONSECUTIVE INFECTION SEARCHES
William C. Harvey, Donald A. Podoloff, and David T. Kopp 2

LABELING OF PHAGOCYTES FROM HUMAN BLOOD WITH ^{99m}Tc-SULFUR COLLOID
Denis English and Burton R. Andersen 5

INTERPRETATION OF RADIONUCLIDE LIVER IMAGES: DO TRAINING AND EXPERIENCE MAKE A DIFFERENCE?
H. Nishiyama, J. T. Lewis, A. B. Ashare, and E. L. Saenger 11

RADIOIODINATED FATTY ACIDS FOR HEART IMAGING: IODINE MONOCHLORIDE ADDITION COMPARED WITH IODIDE REPLACEMENT LABELING
G. D. Robinson, Jr. and A. W. Lee 17

MIGRATION AND EMBOLIZATION OF MACROPHAGES TO THE LUNG—A POSSIBLE MECHANISM FOR COLLOID UPTAKE IN THE LUNG DURING LIVER SCANNING
Michael A. Mikhael and Ronald G. Evens 22

CLINICAL EXPERIENCE WITH ^{99m}Tc-DMSA (DIMERCAPTOSUCCINIC ACID), A NEW RENAL IMAGING AGENT
Hirsch Handmaker, Bradford W. Young, and Jerold M. Lowenstein 28

TECHNETIUM-99m-PYROPHOSPHATE KINETICS AND IMAGING IN METABOLIC BONE DISEASE
Leonard Rosenthal and Michael Kaye 33

TECHNETIUM-99m-PYROPHOSPHATE: STUDIES IN VIVO AND IN VITRO
M. Kaye, S. Silverton, and L. Rosenthal 40

RED CELL AND PLASMA VOLUMES IN NORMAL ADULTS
Peter J. Hurley 46

SEMICONDUCTOR CAMERA FOR DETECTION OF SMALL TUMORS
A. E. Profio and Z. H. Cho 53

DISTRIBUTION OF ^{99m}Tc-Sn DIPHOSPHONATE AND FREE ^{99m}Tc-PERTECHNETATE IN SELECTED SOFT AND HARD TISSUES
Edward B. Silberstein, Marion D. Francis, Andrew J. Tofe, and Candice L. Slough 58

AN EVALUATION OF ^{99m}Tc-SULFUR COLLOID LIVER SCINTISCANS AND THEIR USEFULNESS IN METASTATIC WORKUP: A REVIEW OF 1,424 STUDIES
Shantilal Lunia, K. L. Parthasarathy, S. Bakshi, and Merrill A. Bender 62

A COMPARISON OF ¹¹¹In WITH ⁵²Fe AND ^{99m}Tc-SULFUR COLLOID FOR BONE MARROW SCANNING
M. V. Merrick, E. C. Gordon-Smith, J. P. Lavender, and L. Szur 66

CONCISE COMMUNICATIONS

PURIFICATION AND RADIOCHEMICAL QUALITY CONTROL OF ¹²⁵I-19-iodocholesterol
Manno F. Nelson and Lois C. Vorhees 69

CLINICAL CORRELATION OF HEPATIC FLOW STUDIES
Joseph T. Witek and Richard P. Spencer 71

RADIOSCINTIGRAPHIC STUDIES OF ¹⁴C DISTRIBUTION IN CATS GIVEN ¹⁴C-ETHANOL
Joseph A. DeGrazia, A. Frank Rodden, Joseph D. Teresi, Donald D. Busick, and Dieter R. Walz 73

UPTAKE OF RADIOLABELED ESTRADIOL BY THE CANINE ADRENAL
Martin F. Sturman, William H. Beierwaltes, Rodney D. Ice, and Suraj Prakash 77

THREE-DIMENSIONAL RECONSTRUCTION OF LUNG PERFUSION IMAGE WITH POSITRON DETECTION
D. A. Chesler, C. Hales, D. J. Hnatowich, and B. Hoop 80

PROSTAGLANDINS IN MICE WITH NEUROBLASTOMA
Savita Puri, Robert E. Belliveau, Richard P. Spencer, and Nicholas R. Bachur 83

CASE REPORTS

**DISPLACEMENT OF ANTERIOR CEREBRAL VESSELS IN CEREBRAL DYNAMIC STUDY
IN CASES OF CHRONIC SUBDURAL HEMATOMAS**
Andreas Bekier 86

SINUSITIS DEMONSTRATED BY BRAIN SCANNING
Charles D. Soucek 89

**INCREASED UPTAKE OF ^{99m}Tc-SULFUR COLLOID IN VERTEBRAL COMPRESSION
FRACTURES**
Dale R. Shook and Donovan B. Reinke 92

PRELIMINARY NOTE

HIGH TEMPORAL RESOLUTION ECG-GATED SCINTIGRAPHIC ANGIOCARDIOGRAPHY
Michael V. Green, Harold G. Ostrow, Margaret A. Douglas, Richard W. Myers, Richard N. Scott,
James J. Bailey, and Gerald S. Johnston 95

LETTERS TO THE EDITOR

**AN ARTIFACT THAT SIMULATES AN INFARCTION ON A POSTERIOR VIEW SPLEEN
SCAN**
U. Yun Ryo 99

THE AUTHOR'S REPLY
Richard P. Spencer 100

RADIONUCLIDE SYNOVECTOMY WITH ³²P-CHROMIC PHOSPHATE
M. Vider 100

RADIATION DOSE TO THE BRAIN FROM ¹⁸⁵Yb-DTPA IN CISTERNOGRAPHY
R. Eugene Johnston and E. V. Staab 101

EFFECTS OF SCATTER SUBTRACTION ON IMAGE CONTRAST
Francis B. Atkins and Robert N. Beck 102

**SUMMARY OF CURRENT RADIATION DOSE ESTIMATES TO HUMANS WITH VARIOUS
LIVER CONDITIONS FROM ^{99m}Tc-SULFUR COLLOID** 108A

CALENDAR 106

PLACEMENT 62A

