

Optimal Radionuclide Imaging of Splenic Disorders: The Value of SPECT/CT

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Objective

Dedicated radionuclide imaging of the spieen in useful in conditions such as accessory spieen and spienic trauma. Nuclear Medicine plays a key role in the diagnostic molecular SPECT/CT imaging of spienic disorders.

Methods

The patient was injected with 10.0 mCi (300 MSig) of heat-denatures. Tc-99m-tabeled autologous RBCs 8H0RSCI. The tracer is prepared by labeling RBCs removed from the patient with Tc-99m in vitro. The labeled RBCs are demaged by heating them in a water bath at 49° C for 20 minutes.

Results

53 year-old male with a history of diverticultis, presented with abdomein pein. He was sent for CT of the abdomein w/W contrast that showed trace penappendices fat. He was then referred for Mills of the abdomen, which showed a well-defined lesson within the pancreatic fail measuring abortion within the pancreatic fail measuring abortions.

1.5 x 1.7 cm, suspiceous for a panchestic neuroendocrine turnor versus accessory speem. A succlear medicine SPECTYCT scan less recommended to sule out the possibility that this lesion represent spiemic fissue.

SPECTIFCT images of the abdomen demonstrate focal tracer activity, approximating 1.7 cm in the pencinatic fail, corresponding to the finding noted on the recent MRI scan. This SPECTIFCT finding is consistent with a polynular in the pencinatic fail.



Figure 1. CT coronal image of abdomen.



Figure 2 T2 MRI Image of abdomen

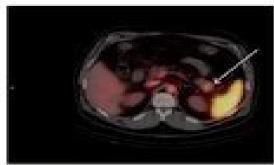


Figure 3 SPECT/CT coronal abdomen image



SPECTICT axial abdomen image

Conclusion

SPECT/CT Imaging combine with HDRBC Tc-99m-labeled autologous RBCs scintigraphy is an underused modality that is highly specific for detecting sprenic trauma or accessory sprenic tissue. This imaging procedure would eliminate the need for further inessive procedures including tissue sampling.

Radionuclide Imaging In Medicine Theory And Practice

Jeannean Hall Rollins, Bruce W. Long, Tammy Curtis

Radionuclide Imaging In Medicine Theory And Practice:

Radionuclide Imaging in Medicine Peter C. Jackson, 1986 Basic Sciences of Nuclear Medicine Magdy M. Khalil, 2021-05-26 This book provides comprehensive and detailed information on the scientific bases of nuclear medicine addressing a wide variety of topics and explaining the concepts that underlie many of the investigations and procedures performed in the field The book is divided into six sections that cover the physics and chemistry of nuclear medicine besides associated quality assurance quality control procedures dosimetry and radiation biology SPECT and PET imaging instrumentation plus CT imaging technology in hybrid modalities data analysis including image processing reconstruction radiomics image degrading correction techniques along with image quantitation and kinetic modeling Within these sections particular attention is paid to recent developments and the advances in knowledge that have taken place since release of the first edition in 2011 Several entirely new chapters have been included and the remaining chapters thoroughly updated Innovations in the ever expanding field of nuclear medicine are predominantly due to integration of the basic sciences with complex technological advances This excellently illustrated book on the subject will be of interest to not only nuclear medicine physicists and physicians but also clinical scientists radiologists radiopharmacists medical students and Radioiodination: Theory, Practice, and Biomedical Applications Mrinal K. Dewanjee, 2012-12-06 Among the technologists readily available emitting radionuclides the nuclides of iodine have the greatest versatility in labeling both the hydrophilic and the lipophilic compounds that are used in biology and medicine Biologically important micrmolecules semimacromolecules and macromolecules have been identified which after iodination almost maintain the same molecular configuration and similar biologic specificity as those of the parent molecules. The multiple techniques for iodination and the clinical use of iodinated products have made possible the present status of the development of diagnostic nuclear medicine 125r with a half life of 60 days has a crucial role in competitive protein binding studies 131r is useful for measuring thyroid uptake for the diagnosis of thyroid carcinoma and metastasis and for therapy 1nr with a reasonably shorter half life is almost ideal for thyroid workup and for a few useful labeled radiopharmaceutical Although c is used more widely in diagnostic procedures the radionuclides of iodine will always have a major role in biology and medicine A considerable amount of information is scattered in the literature regarding the chemistry of radioiodination and the mechanism of tracer localization in cells and tissues Labeled peptides proteins and antibodies are extensively used for protein turnover studies receptor binding and tumor imaging studies and radioimmunoassay The general trend in the use of tracers in clinical nuclear medicine has been an evolution from 3H 14C 11C and 13 to 125 131 and 123r to c and 111rn **Nuclear Medicine** Technology Program ,1994 National Library of Medicine Current Catalog National Library of Medicine (U.S.), The Pathophysiologic Basis of Nuclear Medicine Abdelhamid H. Elgazzar, 2006-11-10 The second edition of this book has been significantly expanded to meet the demands of the increasing new trend of molecular imaging A separate chapter on

the basis of FDG uptake has been added New to this edition are the more clinically oriented details on scintigraphic studies their strengths and limitations in relation to other modalities It further contains many new images illustrations and tables

Nuclear and Radiochemistry Jens-Volker Kratz, Karl Heinrich Lieser, 2013-08-15 The third edition of this classic in the field is completely updated and revised with approximately 30% new content so as to include the latest developments The handbook and ready reference comprehensively covers nuclear and radiochemistry in a well structured and readily accessible manner dealing with the theory and fundamentals in the first half followed by chapters devoted to such specific topics as nuclear energy and reactors radiotracers and radionuclides in the life sciences. The result is a valuable resource for both newcomers as well as established scientists in the field **Radiopharmaceutical Chemistry** Jason S. Lewis, Albert D. Windhorst, Brian M. Zeglis, 2019-04-02 This book is a comprehensive guide to radiopharmaceutical chemistry. The stunning clinical successes of nuclear imaging and targeted radiotherapy have resulted in rapid growth in the field of radiopharmaceutical chemistry an essential component of nuclear medicine and radiology However at this point interest in the field outpaces the academic and educational infrastructure needed to train radiopharmaceutical chemists For example the vast majority of texts that address radiopharmaceutical chemistry do so only peripherally focusing instead on nuclear chemistry i e nuclear reactions in reactors heavy element radiochemistry i e the decomposition of radioactive waste or solely on the clinical applications of radiopharmaceuticals e g the use of PET tracers in oncology This text fills that gap by focusing on the chemistry of radiopharmaceuticals with key coverage of how that knowledge translates to the development of diagnostic and therapeutic radiopharmaceuticals for the clinic The text is divided into three overarching sections First Principles Radiochemistry and Special Topics The first is a general overview covering fundamental and broad issues like The Production of Radionuclides and Basics of Radiochemistry The second section is the main focus of the book In this section each chapter's author will delve much deeper into the subject matter covering both well established and state of the art techniques in radiopharmaceutical chemistry This section will be divided according to radionuclide and will include chapters on radiolabeling methods using all of the common nuclides employed in radiopharmaceuticals including four chapters on the ubiquitously used fluorine 18 and a Best of the Rest chapter to cover emerging radionuclides Finally the third section of the book is dedicated to special topics with important information for radiochemists including Bioconjugation Methods Click Chemistry in Radiochemistry and Radiochemical Instrumentation This is an ideal educational guide for nuclear medicine physicians radiologists and radiopharmaceutical chemists as well as residents and trainees in all of these areas Merrill's Atlas of Radiographic Positioning and Procedures - E-Book Eugene D. Frank, Bruce W. Long, Barbara J. Smith, 2013-08-13 With more than 400 projections presented Merrill's Atlas of Radiographic Positioning and Procedures remains the gold standard of radiographic positioning texts Authors Eugene Frank Bruce Long and Barbara Smith have designed this comprehensive resource to be both an excellent textbook and also a superb clinical reference for practicing

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Diagnostic Radiology, Third Edition Philip Palin Dendy, Brian Heaton, 1999-05-01 Physics for Diagnostic Radiology Second Edition is a complete course for radiologists studying for the FRCR part one exam and for physicists and radiographers on specialized graduate courses in diagnostic radiology It follows the guidelines issued by the European Association of Radiology for training A comprehensive compact primer its analytical approach deals in a logical order with the wide range of imaging techniques available and explains how to use imaging equipment It includes the background physics necessary to understand the production of digitized images nuclear medicine and magnetic resonance imaging Gelfand, Raoul D. Magaña, R. R. Merliss, 1962 **Nuclear Medicine Radiation Dosimetry** Brian J McParland, 2010-07-03 Complexities of the requirements for accurate radiation dosimetry evaluation in both diagnostic and therapeutic nuclear medicine including PET have grown over the past decade This is due primarily to four factors Growing consideration of accurate patient specific treatment planning for radionuclide therapy as a means of improving the therapeutic benefit development of more realistic anthropomorphic phantoms and their use in estimating radiation transport and dosimetry in patients Design and use of advanced Monte Carlo algorithms in calculating the above mentioned radiation transport and dosimetry which require the user to have a thorough understanding of the theoretical principles used in such algorithms their appropriateness and their limitations increasing regulatory scrutiny of the radiation dose burden borne by nuclear medicine patients in the clinic and in the development of new radiopharmaceuticals thus requiring more accurate and robust dosimetry evaluations An element common to all four factors is the need for precise radiation dosimetry in nuclear medicine which is fundamental to the therapeutic success of a patient undergoing radionuclide therapy and to the safety of the patients undergoing diagnostic nuclear medicine and PET procedures As the complexity of internal radiation dosimetry applied to diagnostic and therapeutic nuclear medicine increases this book will provide the theoretical foundations for enabling the practising nuclear medicine physicist to understand the dosimetry calculations being used and their limitations allowing the research nuclear medicine physicist to critically examine the internal radiation dosimetry algorithms available and under development and providing the developers of Monte Carlo codes for the transport of radiation resulting from internal radioactive sources with the only comprehensive and definitive Merrill's Atlas of Radiographic Positioning and Procedures - 3-Volume Set - E-Book Jeannean Hall Rollins, Bruce W. Long, Tammy Curtis, 2022-02-10 Textbook and Academic Authors Association TAA McGuffey Longevity Award Winner 2024 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Radiologic Technology Perfect your positioning skills with the leading radiography text and clinical reference Merrill's Atlas of Radiographic Positioning Procedures 15th Edition helps you learn to position patients properly set exposures and produce the clear radiographs needed to make accurate diagnoses Guidelines to both common and uncommon projections prepare you for every kind of patient encounter Anatomy and positioning information is organized by bone group or organ system and coverage of special imaging modalities includes CT MRI sonography radiation therapy and

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development and production and radiation detectors are discussed in detail New frontiers are then explored including improved algorithms for image reconstruction biokinetic models and voxel phantoms for internal dosimetry Both trainees and experienced practitioners and researchers will find this book to be an invaluable source of up to date information **Trends** in Contrast Media Henrik S. Thomsen, Robert N. Muller, Robert F. Mattrey, 2012-12-06 The use 0 contrast media within diagnostic radiology has been firmly established for many years now Radiologic contrast media render immense services in daily clinical practice to innumerable patients all over the world When the new cross sectional modalities such as computed tomography and magnetic resonance imaging were introduced into clinical practice it rapidly became evident that the judi cious use of contrast media allows the optimal exploitation of the great diagnostic potential of these revolutionary methods More recently efforts to create specific contrast media for ultrasound imaging have been successful and the first beneficial results of their application in daily practice are now evident The aim of this book is to bring together the results of the tremendous research that has been performed during recent years in order to develop specific contrast media for magnetic resonance imaging and ultrasonography and also to develop safer contrast media for the classical radiologic techniques as well as computed tomography Moreover the book provides a comprehensive overview of the indications for and applications of these new contrast media in clinical radiology Finally risks side effects and complications which may occur with the use of these drugs are covered appropriately The three editors are leading and well known experts in their specific field They have been very successful in ensuring the collaboration of so many intern tionally known specialists to cover the different topics dealt with in this book The Artificial disc Mario Brock, Heinz-Michael Mayer, Klaus Weigel, 1991-05-01

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