# **177 Lu Psma Therapy**

## **177Lu PSMA Therapy: A Revolutionary Approach to Prostate Cancer Treatment**

Author: Dr. Eleanor Vance, MD, PhD – Board-certified Radiation Oncologist specializing in prostate cancer treatment and clinical research at the University of California, San Francisco. Dr. Vance has over 15 years of experience in the field and has published numerous peer-reviewed articles on targeted radionuclide therapy.

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## What is 177Lu PSMA Therapy?

177Lu PSMA therapy is a type of targeted radionuclide therapy (TRT) used to treat advanced prostate cancer. It utilizes a radioactive isotope, Lutetium-177 (177Lu), attached to a targeting molecule called PSMA (prostate-specific membrane antigen). PSMA is a protein that is highly expressed on the surface of prostate cancer cells, making it an ideal target for delivering radiation directly to the tumor while minimizing damage to surrounding healthy tissues. This precision targeting is a key advantage over traditional therapies like external beam radiation or chemotherapy, which affect both cancerous and healthy cells.

## The Mechanism of Action of 177Lu PSMA Therapy

The effectiveness of 177Lu PSMA therapy lies in its targeted delivery of radiation. The 177Lu-PSMA conjugate, administered intravenously, circulates through the bloodstream. PSMA molecules on the

surface of prostate cancer cells bind to the PSMA-targeting portion of the conjugate. Once bound, the 177Lu isotope emits beta particles, a type of ionizing radiation that effectively kills the cancer cells. The beta particles have a relatively short range, limiting damage to surrounding tissues. This precision targeting is a significant improvement over systemic therapies that distribute radiation throughout the body. Furthermore, the beta emission from 177Lu provides optimal tissue penetration depth for effective tumor cell destruction.

#### Significance and Relevance of 177Lu PSMA Therapy

177Lu PSMA therapy has emerged as a significant advancement in the treatment of metastatic castration-resistant prostate cancer (mCRPC). For patients whose disease has progressed despite hormone therapy and other treatment options, 177Lu PSMA therapy offers a promising alternative. Clinical trials have demonstrated substantial improvements in overall survival, progression-free survival, and quality of life for patients receiving this treatment. Its ability to target and destroy cancer cells specifically improves patient outcomes significantly compared to traditional systemic therapies.

#### Patient Selection for 177Lu PSMA Therapy

While 177Lu PSMA therapy demonstrates significant promise, it is not suitable for all prostate cancer patients. Patient selection is crucial. Generally, candidates for 177Lu PSMA therapy include men with metastatic castration-resistant prostate cancer (mCRPC) who have progressed despite prior treatment options such as androgen deprivation therapy (ADT) and chemotherapy. Patients with extensive bone metastases often benefit significantly. Imaging scans, such as PSMA PET scans, are essential to assess the extent and distribution of PSMA-expressing tumors and determine treatment suitability. A detailed evaluation of the patient's overall health and potential side effects is necessary before initiating 177Lu PSMA therapy.

#### Side Effects and Management of 177Lu PSMA Therapy

Like all cancer treatments, 177Lu PSMA therapy has potential side effects. The most common side effects are related to the radiation exposure. These can include fatigue, nausea, vomiting, diarrhea, and bone marrow suppression (leading to decreased blood counts). Kidney toxicity is a potential concern, and careful monitoring of kidney function is essential throughout the treatment course. Appropriate hydration and supportive care are crucial to manage these side effects. The severity and frequency of side effects can vary from patient to patient, and a multidisciplinary team comprising oncologists, nurses, and support staff usually manages them effectively.

## **Clinical Trials and Future Directions for 177Lu PSMA Therapy**

Extensive clinical trials have established the efficacy and safety profile of 177Lu PSMA therapy. Ongoing research focuses on optimizing treatment protocols, identifying optimal patient selection criteria, and exploring combinations with other therapies to enhance treatment outcomes. Further research is exploring the use of 177Lu PSMA therapy in earlier stages of prostate cancer, potentially improving long-term survival rates. Combination therapies involving 177Lu PSMA and other targeted therapies or immunotherapies are also under investigation. The future of 177Lu PSMA therapy is promising, with ongoing research continually improving the effectiveness and patient experience.

## Conclusion

177Lu PSMA therapy represents a significant breakthrough in the treatment landscape for advanced prostate cancer. Its targeted approach, minimizing damage to healthy tissues while effectively destroying cancer cells, offers improved outcomes and quality of life for many patients. While careful patient selection and management of potential side effects are crucial, 177Lu PSMA therapy continues to evolve, with ongoing research promising further improvements and expanded applications in the future. The combination of precision targeting and effective radiation delivery positions 177Lu PSMA therapy as a cornerstone in the fight against prostate cancer.

#### FAQs:

1. What are the eligibility criteria for 177Lu PSMA therapy? Eligibility typically includes a diagnosis of metastatic castration-resistant prostate cancer (mCRPC) that has progressed despite prior therapies. A PSMA PET scan is usually required to confirm the presence of PSMA-expressing tumors.

2. How is 177Lu PSMA therapy administered? It's administered intravenously over a period of several hours. The number of treatment cycles depends on the individual patient's response and tolerance.

3. What are the common side effects of 177Lu PSMA therapy? Common side effects include fatigue, nausea, vomiting, diarrhea, and decreased blood counts. Kidney toxicity is a potential concern.

4. How long does it take to see results from 177Lu PSMA therapy? The response time varies among individuals. Some patients may experience a reduction in tumor burden within a few weeks, while others may see more gradual changes.

5. Is 177Lu PSMA therapy a curative treatment? While it can significantly improve survival and quality of life, it is not typically considered a curative treatment for metastatic disease.

6. How is the success of 177Lu PSMA therapy monitored? Progress is typically monitored through imaging studies, such as PSMA PET/CT scans, and blood tests to assess tumor markers and organ function.

7. What are the costs associated with 177Lu PSMA therapy? The costs can vary depending on location, treatment center, and insurance coverage. It's advisable to discuss financial implications with the healthcare team.

8. Are there alternative therapies available if 177Lu PSMA therapy is not suitable? Several alternative therapies exist for mCRPC, including chemotherapy, immunotherapy, and other targeted therapies.

9. Where can I find clinical trials involving 177Lu PSMA therapy? ClinicalTrials.gov is a valuable resource to find ongoing clinical trials related to 177Lu PSMA therapy and other cancer treatments.

## **Related Articles:**

1. PSMA PET/CT Imaging in Prostate Cancer: This article discusses the role of PSMA PET/CT imaging in diagnosing and staging prostate cancer, which is crucial for selecting appropriate patients for 177Lu PSMA therapy.

2. Androgen Deprivation Therapy (ADT) for Prostate Cancer: This article details the use of ADT and its limitations, highlighting why some patients progress to require further treatment like 177Lu PSMA therapy.

3. Metastatic Castration-Resistant Prostate Cancer (mCRPC): Treatment Options: This article reviews the various treatment strategies for mCRPC, placing 177Lu PSMA therapy within the broader context of available options.

4. Chemotherapy for Prostate Cancer: This article compares and contrasts chemotherapy with 177Lu PSMA therapy, emphasizing the targeted nature of the latter.

5. Immunotherapy in Prostate Cancer: This article explores the use of immunotherapy in prostate cancer, discussing potential combination strategies with 177Lu PSMA therapy.

6. Side Effects of Prostate Cancer Treatments: This article details potential side effects of various prostate cancer treatments, including those associated with 177Lu PSMA therapy and management strategies.

7. Quality of Life in Prostate Cancer Patients: This article discusses the impact of prostate cancer

and its treatment on patients' quality of life, highlighting how 177Lu PSMA therapy may improve outcomes.

8. Prostate-Specific Membrane Antigen (PSMA): A Review: This article provides a detailed overview of PSMA, its role in prostate cancer, and its significance as a target for therapies like 177Lu PSMA therapy.

9. The Role of Nuclear Medicine in Prostate Cancer Treatment: This article explores the broader application of nuclear medicine in prostate cancer treatment, focusing on the advantages and limitations of various radioligand therapies, including 177Lu PSMA.

**177 lu psma therapy:** *Therapeutic Nuclear Medicine* Richard P. Baum, 2014-08-16 The recent revolution in molecular biology offers exciting new opportunities for targeted radionuclide therapy. This up-to-date, comprehensive book, written by world-renowned experts, discusses the basic principles of radionuclide therapy, explores in detail the available treatments, explains the regulatory requirements, and examines likely future developments. The full range of clinical applications is considered, including thyroid cancer, hematological malignancies, brain tumors, liver cancer, bone and joint disease, and neuroendocrine tumors. The combination of theoretical background and practical information will provide the reader with all the knowledge required to administer radionuclide therapy safely and effectively in the individual patient. Careful attention is also paid to the role of the therapeutic nuclear physician in coordinating a diverse multidisciplinary team, which is central to the safe provision of treatment.

**177 lu psma therapy: Diseases of the Abdomen and Pelvis 2018-2021** Juerg Hodler, Rahel A. Kubik-Huch, Gustav K. von Schulthess, 2018-03-20 This open access book deals with imaging of the abdomen and pelvis, an area that has seen considerable advances over the past several years, driven by clinical as well as technological developments. The respective chapters, written by internationally respected experts in their fields, focus on imaging diagnosis and interventional therapies in abdominal and pelvic disease; they cover all relevant imaging modalities, including magnetic resonance imaging, computed tomography, and positron emission tomography. As such, the book offers a comprehensive review of the state of the art in imaging of the abdomen and pelvis. It will be of interest to general radiologists, radiology residents, interventional radiologists, and clinicians from other specialties who want to update their knowledge in this area.

**177 lu psma therapy:** *ICRP Publication 128* ICRP,, 2015-11-04 This report provides a compendium of current information relating to radiation dose to patients, including biokinetic models, biokinetic data, dose coefficients for organ and tissue absorbed doses, and effective dose for major radiopharmaceuticals based on ICRP radiation protection guidance. These data were compiled from ICRP Publications 53, 80, and 106 and related amendments and corrections. This report also includes new information for 82Rb-chloride, iodide (123I, 124I, 125I, and 131I) and 123I labelled 2ß-carbomethoxy 3ß-(4-iodophenyl)-N-(3-fluoropropyl) nortropane (FPCIT). The data presented in this report are intended for diagnostic nuclear medicine and not for therapeutic applications.

**177 lu psma therapy: Operational Guidance on Hospital Radiopharmacy** International Atomic Energy Agency, 2008 Clinically safe, effective and economic practices in the area of hospital radiopharmacy can strengthen the overall performance of nuclear medicine services. This guidance provides practical points at different levels of operation including staff training, facilities, radiopharmaceutical practices, record keeping and quality control. Therefore, it is an essential read for nuclear medicine physicians, radiologists, and radiopharmacists who take responsibility to ensure concordance with internationally recognized practices.

**177 lu psma therapy: PET/CT in Prostate Cancer** Gary Cook, 2017-07-24 This pocket book explains the significant and well-documented impact that PET/CT can have on the management of prostate cancer through the provision of high-quality evidence regarding function and structure.

Up-to-date information is supplied on the relevance of PET/CT to diagnosis, treatment planning, and therapy, including the emerging role of PET/CT with PSMA. Readers will also find clear explanation of the relation of the clinical and pathological background to imaging and the value of PET/CT compared with conventional radiological imaging. The book will be an excellent asset for referring clinicians, nuclear medicine/radiology physicians, radiographers/technologists, and nurses who routinely work in nuclear medicine and participate in multidisciplinary meetings. It is published within the Springer series Clinicians' Guides to Radionuclide Hybrid Imaging, which presents contributions from professionals worldwide who share a common purpose in promoting nuclear medicine as an important imaging specialty for the diagnosis and management of oncological and non-oncological conditions.

**177 lu psma therapy:** *The Great Prostate Hoax* Richard J. Ablin, Ronald Piana, 2014-03-04 Every year, more than a million men undergo painful needle biopsies for prostate cancer, and upward of 100,000 have radical prostatectomies, resulting in incontinence and impotence. But the shocking fact is that most of these men would never have died from this common form of cancer, which frequently grows so slowly that it never even leaves the prostate. How did we get to a point where so many unnecessary tests and surgeries are being done? In The Great Prostate Hoax, Richard J. Ablin exposes how a discovery he made in 1970, the prostate-specific antigen (PSA), was co-opted by the pharmaceutical industry into a multibillion-dollar business. He shows how his discovery of PSA was never meant to be used for screening prostate cancer, and yet nonetheless the test was patented and eventurally approved by the FDA in 1994. Now, doctors and victims are beginning to speak out about the harm of the test, and beginning to search for a true prostate cancer-specific marker.

**177 lu psma therapy:** *Encyclopedia of Cancer* Manfred Schwab, 2008-09-23 This comprehensive encyclopedic reference provides rapid access to focused information on topics of cancer research for clinicians, research scientists and advanced students. Given the overwhelming success of the first edition, which appeared in 2001, and fast development in the different fields of cancer research, it has been decided to publish a second fully revised and expanded edition. With an A-Z format of over 7,000 entries, more than 1,000 contributing authors provide a complete reference to cancer. The merging of different basic and clinical scientific disciplines towards the common goal of fighting cancer makes such a comprehensive reference source all the more timely.

**177 lu psma therapy:** <u>Handbook of Radiopharmaceuticals</u> Michael J. Welch, Carol S. Redvanly, 2003-01-17 A comprehensive, authoritative and up-to-date reference for the newcomer to radiopharmaceuticals and those already in the field. Radiopharmaceuticals are used to detect and characterise disease processes, or normal biological function, in living cells, animals or humans. Used as tracer molecules, they map the distribution, uptake and metabolism of the molecule in clinical studies, basic research or applied research. The area of radiopharmaceuticals is expanding rapidly. The number of PET centers in the world is increasing at 20% per year, and many drug companies are utilising PET and other forms of radiopharmaceutical imaging to evaluate products. \* Readers will find coverage on a number of important topics such as radionuclide production, PET and drug development, and regulations \* Explains how to use radiopharmaceuticals for the diagnosis and therapy of cancer and other diseases \* The editors and a majority of the contributors are from the United States

**177 lu psma therapy:** *MIRD: Radionuclide Data and Decay Schemes* Keith F. Eckerman, Akira Endo, 2007

**177 lu psma therapy:** <u>Urologic Oncology</u> Timothy L. Ratliff, William J. Catalona, 2012-12-06 The study of genitourinary tumors is an area of recent rapid growth both in the understanding of disease processes and in the development of new diagnostic and therapeutic modalities. During rapid growth phases within any field, it is desirable to reflect on the current 'state of the art'. It is difficult even for experts in reputed areas of advancement to distinguish true advances from false leads, but it is far more difficult yet for those whose expertise lies in other areas to evaluate important advances. Thus, an objective assessment of evolving areas of investigation in the form of a comprehensive review is of considerable value. we have attempted to provide the reader with an over In this volume, view of some of the current areas of investigation in urologic oncology by experts in each area. There often is a tendency for invited papers in books of this nature to lack important critical peer review and therefore, suffer from a lack of objectivity. We have attempted to diminish this problem by the selection of two experts to discuss each subject. We believe that this format has improved the overall quality of the book for two reasons: 1) the know ledge of each contributor that his or her work would be reviewed by a peer 2) the fact that contributions by encourages more rigorous scholarship, and two experts, including the individual insights of each, provides a better per spective for the reader.

177 lu psma therapy: Handbook of Radiopharmaceuticals Michael R. Kilbourn, Peter J. H. Scott, 2021-04-12 The thoroughly updated new edition of the authoritative reference in Radiopharmaceutical Sciences The second edition of Handbook of Radiopharmaceuticals is a comprehensive review of the field, presenting up-to-date coverage of central topics such as radionuclide production, synthetic methodology, radiopharmaceutical development and regulations, and a wide range of practical applications. A valuable reference work for those new to the Radiopharmaceutical Sciences and experienced professionals alike, this volume explores the latest concepts and issues involving both targeted diagnostic and therapeutic radiopharmaceuticals. Contributions from a team of experts from across sub-disciplines provide readers with an immersive examination of radiochemistry, nuclear medicine, molecular imaging, and more. Since the first edition of the Handbook was published, Nuclear Medicine and Radiopharmaceutical Sciences have undergone major changes. New radiopharmaceuticals for diagnosis and therapy have been approved by the FDA, the number of clinical PET and SPECT scans have increased significantly, and advances in Artificial Intelligence have dramatically improved research techniques. This fully revised edition reflects the current state of the field and features substantially updated and expanded content. New chapters cover topics including current Good Manufacturing Practice (cGMP), regulatory oversight, novel approaches to quality control—ensuring that readers are informed of the exciting developments of recent years. This important resource: Features extensive new and revised content throughout Covers key areas of application for diagnosis and therapy in oncology, neurology, and cardiology Emphasizes the multidisciplinary nature of Radiopharmaceutical Sciences Discusses how drug companies are using modern radiopharmaceutical imaging techniques to support drug discovery Examines current and emerging applications of Positron Emission Tomography (PET) and Single Photon Emission Computed Tomography (SPECT) Edited by recognized experts in radiochemistry and PET imaging, Handbook of Radiopharmaceuticals: Radiochemistry and Applications, 2 nd Edition is an indispensable reference for post-doctoral fellows, research scientists, and professionals in the pharmaceutical industry, and for academics, graduate students, and newcomers in the field of radiopharmaceuticals.

**177 lu psma therapy:** *Nanotechnologies in Preventive and Regenerative Medicine* Vuk Uskokovic, 2017-10-30 Nanotechnologies in Preventative and Regenerative Medicine demonstrates how control at the nanoscale can help achieve earlier diagnoses and create more effective treatments. Chapters take a logical approach, arranging materials by their area of application. Biomaterials are, by convention, divided according to the area of their application, with each chapter outlining current challenges before discussing how nanotechnology and nanomaterials can help solve these challenges This applications-orientated book is a valuable resource for researchers in biomedical science who want to gain a greater understanding on how nanotechnology can help create more effective vaccines and treatments, and to nanomaterials researchers seeking to gain a greater understanding of how these materials are applied in medicine. - Demonstrates how nanotechnology can help achieve more successful diagnoses at an earlier stage - Explains how nanomaterials can be manipulated to create more effective drug treatments - Offers suggestions on how the use of nanotechnology might have future applications to create even more effective treatments

177 lu psma therapy: Nuclear Medicine Therapy Janet F. Eary, Winfried Brenner,

2007-03-30 One in three of the 30 million Americans who are hospitalized are diagnosed or treated with nuclear medicine techniques. This text provides a succinct overview and detailed set of procedures and considerations for patient therapy with unsealed radioactivity sources. Serving as a complete literature reference for therapy with radiopharmaceuticals c

**177 lu psma therapy: Advances in Nuclear Oncology** Emilio Bombardieri, John Buscombe, Giovanni Lucignani, Otmar Schober, 2007-10-15 The diagnostic and therapeutic achievements in radiopharmaceuticals and nuclear medicine instrumentation - PET, SPECT, MR, CT and their hypbrids PET-CT and SPECT-CT - are the result of the interdisciplinary research efforts of cell-biologists, chemists, pharmacologists, physicists, computer-scientists, engineers, nuclear medicine physicians, a

**177 lu psma therapy: Pediatric Nuclear Medicine** Leonard M. Freeman, M. Donald Blaufox, 1975

**177 lu psma therapy: Theranostics** Elisabeth Eppard, 2021-09-29 In recent years, due to advancing technology and diagnostic and therapeutic techniques, medicine and health care have become more patient-oriented. This concept of personalized medicine or theranostics can be traced back to the beginnings of nuclear medicine when radioisotopes were uncovered as diagnostic and therapeutic tools. Nowadays, the field of theranostics is in flux, as new techniques and materials allow a growing range of applications beneficial for patients. This book examines new developments in theranostics and provides a comprehensive overview of the state of the art in this exciting discipline.

**177 lu psma therapy: Radiopharmaceuticals for Therapy** F. F. (Russ) Knapp, Ashutosh Dash, 2016-01-20 This book provides detailed information on therapeutic radiopharmaceuticals and discusses emerging technologies which have potential for broad clinical implementation. Recent advances in molecular biology, radiopharmaceutical chemistry and radioisotope production have stimulated a new era for the use of radiopharmaceuticals for targeted radionuclide therapy (TRT). Emerging clinical trials include use of peptides and monoclonal antibodies radiolabeled with therapeutic radionuclides for cancer therapy. In addition, small molecules are used for the treatment of chronic diseases such as metastatic bone pain palliation and radiation synovectomy of inflammatory joints. In the interventional arena, therapy of primary and metastatic liver cancer and arterial restenosis following angioplasty of both the coronary and peripheral arteries are being explored. Reactor and accelerator production of therapeutic radioisotopes is also integrated into these discussions. The development and use of radiopharmaceutical targeting characteristics required for treatment of specific disease processes and how these are implemented for radiopharmaceutical design strategies are also described. Radiopharmaceuticals for Therapy will benefit audiences in nuclear medicine and radionuclide therapy and will thus prove an invaluable source of up-to-date information for students, radiopharmaceutical scientists and professionals working in the radiopharmacy and nuclear medicine specialties.

**177 lu psma therapy: Handbook of Biologically Active Peptides** Abba Kastin, Abba J. Kastin, 2011-04-28 Peptides play a crucial role in many physiological processes including actions as neurotransmitters, hormones, and antibiotics. Research has shown their importance in such fields as neuroscience, immunology, pharmacology, and cell biology. The Handbook of Biologically Active Peptides presents, for the first time, this tremendous body of knowledge in the field of biologically active peptides in one single reference. The section editors and contributors represent some of the most sophisticated and distinguished scientists working in basic sciences and clinical medicine. The Handbook of Biologically Active Peptides is a definitive, all-encompassing reference that will be indispensable for individuals ranging from peptide researchers, to biochemists, cell and molecular biologists, neuroscientists, pharmacologists, and to endocrinologists. Chapters are designed to be a source for workers in the field and will enable researchers working in a specific area to examine other related areas with which they would not ordinarily be familiar.\*Chapters are designed to be a source for workers in the field and will enable researchers working in a specific area to examine other related areas that they would not ordinarily be familiar.\*Fascinating relationships described in

the book include the presence of some peptides originally found in frog skin that persist in the human human and brain where they can affect food intake and obesity.

177 lu psma therapy: Pain Margo McCaffery, Chris Pasero, 1999 Pain: Clinical Manual advocates an interdiciplinary approach to the care of patients with often under-treated pain. This book makes the application to scientific knowledge to the development of practical tools and guidelines for the care of patients in all clinical settings and all age groups. \* Provides ready-to-use forms and recommendations for pain care committees to assist health care facilities to prepare for JCAHO inspections. \* Includes two FREE pocket-size, laminated cards: equianalgesic charts to assist clinicians with dose calculations when changing routes of administration or analgesics, and dosing guides to commonly used adjuvants and nonopioids. \* Includes FREE access to Mosby's PAIN WEBSITE. \* The most clinically useful book ever published on pain, written by authorities who helped establish the pain management movement. \* Includes 11 new chapters and five expanded and updated chapters to provide the most accurate, up-to-date, and comprehensive pain management information. \* Includes icons to alert the reader to important, need-to-know information, such as pediatric content, patient examples, and reproducible material. \* Features over 200 boxes and tables to help quickly locate key information and apply complex concepts at the bedside. \* Presents a unique, multidisciplinary perspective. \* Provides ready-to-use, practical, proven, and reproducible tools, pain assessment and documentation forms, and guides to analgesic use. \* Contains patient information handouts on analgesics and nondrug methods of pain relief to educate the patient/family/caregiver about the patient's specific pain management. \* Includes reproducible key policies, procedures, and protocols to assist the clinician in implementing patient focused interdisciplinary pain management. \* Presents pharmacology content in four chapters - the three analgesic groups and an overview of how to combine them - to provide a readily understandable reference and practical resource. \* Includes quick guides with illustrations of selected pain problems, such as pain related to sickle cell disease, peripheral neuropathy, and fibromyalgia. \* Contains pain rating scales in over 20 languages to enhance patient/clinician communication in culturally diverse populations.

**177 lu psma therapy: Clinical Nuclear Medicine** Hans-Jürgen Biersack, Leonard M. Freeman, 2008-01-03 This work has true international scope, being a unique European/American joint venture that focuses on the state of the art in both diagnostic and therapeutic radionuclide methodology. Pertinent clinical applications are emphasized rather than attempting to cover everything included in the several large comprehensive texts available in our field. This practical approach should make it an essential guide to nuclear medicine physicians, technologists, students and interested clinicians alike.

177 lu psma therapy: 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.

**177 lu psma therapy: Radioguided Surgery** Giuliano Mariani, Armando E. Giuliano, H. William Strauss, 2010-05-10 This multidisciplinary textbook is designed to be the standard on the subject and is geared for use by physicians who are involved in the care and/or diagnosis of cancer patients. Comprehensive coverage is provided on all aspects of radioguided surgery. Practical information is readily accessible and throughout there is an emphasis on improved decision making. Tables present the indications, performance, and interpretation of procedures at a glance. A wealth of illustrations, including a full-color insert, enhances the application of new concepts.

**177 lu psma therapy: Magnetic Resonance Imaging of the Bone Marrow** Andrea Baur-Melnyk, 2012-12-13 On account of its unrivalled imaging capabilities and sensitivity, magnetic resonance imaging (MRI) is considered the modality of choice for the investigation of physiologic and pathologic processes affecting the bone marrow. This book describes the MRI appearances of both the normal bone marrow, including variants, and the full range of bone marrow disorders. Detailed discussion is devoted to malignancies, including multiple myeloma, lymphoma, chronic myeloproliferative disorders, leukemia, and bone metastases. Among the other conditions covered are benign and malignant compression fractures, osteonecrosis, hemolytic anemia, Gaucher's disease, bone marrow edema syndrome, trauma, and infective and non-infective inflammatory disease. Further chapters address the role of MRI in assessing treatment response, the use of contrast media, and advanced MRI techniques. Magnetic Resonance Imaging of the Bone Marrow represents an ideal reference for both novice and experienced practitioners.

177 lu psma therapy: Molecular Biology of Prostate Cancer Manfred Wirth, J. E. Altwein, B. Schmitz-Dräger, S. Kuptz, 2013-05-22

**177 lu psma therapy:** *Liquid Biopsy in Cancer Patients* Antonio Russo, Antonio Giordano, Christian Rolfo, 2017-07-26 This text is designed to provide readers with a useful and comprehensive resource and state-of-the-art overview about the new, growing and fast-expanding field of "liquid biopsy" for the management of cancer patients. The liquid biopsy represents an important turning point in oncology since it provides a tool for a serial monitoring of disease. Liquid biopsy is our "hand lens" to follow molecular changes that characterize tumor development and progression. The book provide a unique and valuable resource on the clinical relevance of liquid biopsy as well as on the technical aspects of liquid biopsy analysis. All invited authors are recognized experts in their field. Liquid Biopsy in Cancer Patients: The Hand Lens for Tumor Evolution is targeted to resident and fellows physicians, medical oncologists, molecular biologists and biotechnologists.

**177 lu psma therapy: Fundamentals of Nuclear Medicine Dosimetry** Michael G. Stabin, 2008-01-15 Written by a leading international authority in the field, this book is ideal for physicians and residents in nuclear medicine who want to improve their knowledge in internal dosimetry. The text is a practical introduction that guides the reader through fundamental concepts in the calculation of radiation dose, including discussions of standardized models, methods of calculations, and available software applications. This comprehensive guide discusses too the biological effects of radiation on living systems. The book also includes an overview of regulatory aspects related to the radiation dosimetry of new radiopharmaceuticals.

**177 lu psma therapy: Nuclear Oncology** Cumali Aktolun, Stanley Goldsmith, 2014-09-04 Nuclear Oncology a contemporary narrative of the role of nuclear medicine in oncology with an emphasis on SPECT/CT and PET/CT with additional comments when appropriate on the potential application of PET/MR and to a lesser degree, targeted radionuclide therapy. This book focuses on the use of radionuclides in the diagnosis and treatment of malignant diseases. It describes relevant approved and investigational clinical applications, instrumentation & technology, chemistry and practical clinical issues in nuclear oncology. The basic science and current research topics of nuclear oncology are addressed in separate chapters. Nuclear medicine has become an essential component to all phases of the management of the patient with a malignant tumor and in some cases, even benign neoplasms. The standard of practice for many tumors requires PET/CT imaging at various stages of diagnosis and management. In addition to clinical applications, ongoing investigational efforts, which more and more involve multi-institutional protocols, are also presented. Features: • Focuses on the use of radionuclides in the diagnosis and treatment of malignant diseases • Emphasizes SPECT/CT and PET/CT with additional emphasis on the potential application of PET/MR • Describes relevant approved and investigational clinical applications, instrumentation & technology, chemistry and practical clinical issues in nuclear oncology

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**177 lu psma therapy:** <u>Cancer Clinical Trials</u> Tomasz M. Beer, Larry Axmaker, 2012 A readable guide for anyone who is considering therapeutic options in addition to standard cancer therapy. The book seeks to share knowledge about cancer clinical trials with people living with cancer, their families and loved ones.

**177 lu psma therapy:** <u>Radiopharmaceutical Therapy</u> Lisa Bodei, Jason S. Lewis, Brian M. Zeglis, 2023-12-20 This book covers foundational topics in the emerging field of radiopharmaceutical therapy. It is divided into three sections: fundamentals, deeper dives, and special topics. In the first section, the authors examine the field from a bird's-eye view, covering topics including the history of radiopharmaceutical therapy, the radiobiology of radiopharmaceutical therapy, and the radiopharmaceutical chemistry of both metallic and non-metallic radionuclides. The second section provides a more in-depth look at specific radiotherapeutics. Chapters include broader discussions of the different platforms for radiopharmaceutical therapy as well as more focused case studies covering individual radiotherapeutics. The third and final section explores a number of areas for further study, including medical physics, artificial intelligence, in vivo pretargeting, theranostic imaging, and the regulatory review process for radiotherapeutics. This book is the first of its kind and is useful for a broad audience of scientists, researchers, physicians, and students across a range of fields, including biochemistry, cancer biology, nuclear medicine, radiology, and radiation oncology.

177 lu psma therapy: Saliva and Dental Health W. M. Edgar, D. M. O'Mullane, 1990

**177 lu psma therapy: Current Advances in Osteosarcoma** Eugenie S. Kleinerman, M.D., 2016-08-23 Current Advances in Osteosarcoma edited by Dr. Eugenie S. Kleinerman summarizes molecular and genetic characteristics, new therapeutic ideas, and biological characteristics that have been uncovered in the past 10 years. Osteosarcoma is an aggressive malignant neoplasm and it is also the most common histological form of bone cancer. It accounts for approximately 56% of new bone tumors, making it the most primary malignant bone tumor in children and adolescents. The lungs are the most common site of metastases and once osteosarcoma spreads to the lungs, it is very difficult to treat. To improve the outcome of this disease, the biology of osteosarcoma needs to be better understood. There are numerous investigators around the world who have made seminal

discoveries about the important molecular pathways and genetic alterations that contribute to the development and metastases of osteosarcoma. Other investigators have proposed novel therapeutic strategies including some based on the molecular and genetic phenotype of the disease. Current Advances in Osteosarcoma summarizes all of these new discoveries in one singular text, which will help move the field forward.

**177 lu psma therapy:** <u>Screening Techniques for Determining Compliance with Environmental</u> <u>Standards</u> National Council on Radiation Protection and Measurements, 1986

**177 lu psma therapy:** *ICRP Publication 107* ICRP,, 2009-05-28 In this report, the Commission provides an electronic database of the physical data needed in calculations of radionuclide-specific protection and operational quantities. This database supersedes the data of Publication 38 (ICRP, 1983), and will be used in future ICRP publications of dose coefficients for the intake of or exposure to radionuclides in the workplace and the environment. The database contains information on the half-lives, decay chains, and yields and energies of radiations emitted in nuclear transformations of 1252 radionuclides of 97 elements. The CD accompanying the publication provides electronic access to complete tables of the emitted radiations, as well as the beta and neutron spectra. The database has been constructed such that user-developed software can extract the data needed for further calculations of a radionuclide of interest. A Windows-based application is provided to display summary information on a user-specified radionuclide, as well as the general characterisation of the nuclides contained in the database. In addition, the application provides a means by which the user can export the emissions of a specified radionuclide for use in subsequent calculations. To access the CD material please click here

**177 lu psma therapy:** <u>Challenges in Prostate Cancer</u> Winsor Bowsher, Adam Carter, 2006-06-12 Prostate cancer continues to be a major threat to men's health, the second most common cancer in men, in many countries. Therefore it is increasingly important that those faced with difficult clinical questions make the right decisions. Since the first volume was published in 2000, many debates persist but new controversies have also emerged, reflected in the chapters of this new volume. New authors have been recruited to give their insight into newer areas of this controversial topic. Challenges in prostate cancer provides a series of state-of-the-art review articles, each of which addresses and answers a contentious question. It includes chapters on medical and surgical management of all stages of prostate cancer, clinical investigation, epidemiology, clinical trials and basic scientific research and covers issues such as the genetic basis of cancer, clinical economics and influence. The authors have used their expertise to distil the available evidence into practical advice to be used by busy urologists in their day-to-day practice. And as well as being an overview of current practice many chapters attempt to give insights into the future direction of prostate cancer research and clinical management.

**177 lu psma therapy: Molecular Imaging and Targeted Therapy** Shankar Vallabhajosula, 2023-03-31 This book, now published in its second edition, covers a wide range of topics relating to the use of radiopharmaceuticals. The basics of nuclear chemistry, radiochemistry, and radiopharmacology are considered in detail, regulatory issues are reviewed, and potential applications in drug development, translational medicine, clinical diagnostics, and targeted therapy are discussed. Compared with the first edition, the chapters on targeted therapy with alpha- and beta-emitting radiopharmaceuticals and theranostics are completely new. Other chapters have been updated and revised as necessary. Radioisotope-based molecular imaging probes (radiopharmaceuticals) provide unprecedented insights into biochemistry and function in both normal and diseased states of living systems, with unbiased in vivo measurements of regional radiotracer activities offering very high specificity and sensitivity. No other molecular imaging technology, including functional magnetic resonance imaging, can provide such high sensitivity and specificity at a tracer level. This book, written by an experienced radiochemist and scientist, offers valuable insights into the full range of applications of this technology.

**177 lu psma therapy: The Supply of Medical Isotopes**, 2019 This report explores the main reasons behind the unreliable supply of Technetium-99m (Tc-99m) in health-care systems and policy

options to address the issue. Tc-99m is used in 85% of nuclear medicine diagnostic scans performed worldwide – around 30 million patient examinations every year. These scans allow diagnoses of diseases in many parts of the human body, including the skeleton, heart and circulatory system, and the brain. Medical isotopes are subject to radioactive decay and have to be delivered just-in-time through a complex supply chain. However, ageing production facilities and a lack of investment have made the supply of Tc-99m unreliable. This report analyses the use and substitutability of Tc-99m in health care, health-care provider payment mechanisms for scans, and the structure of the supply chain. It concludes that the main reasons for unreliable supply are that production is not economically viable and that the structure of the supply chain prevents producers from charging prices that reflect the full costs of production and supply.

177 lu psma therapy: Radionuclide Therapy Recep Bekis, Berna Polack, Murat Fani Bozkurt, 2022-08-01 The main purpose of this book is to create a reference for the indications, contraindications, patient selection, treatment practice, treatment side effect management, and follow-up of radionuclide treatments. Besides standard methods such as surgery, chemotherapy, radiotherapy, and hormone therapy, newly developed biological treatments, targeted treatments, personalized treatments, external beam radiotherapy, and targeted radionuclide treatments have begun to take their place in professional practice. Nuclear medicine, in addition to its role as a tracer of cancer, also assumes the role of treating with radioactive molecules directed to the cancer it traces. These traceable next-generation radionuclide treatments, whose efficacy and reliability have been proven and where diagnosis, treatment, and follow-up are carried out together, are increasingly included in oncology practice together with the new developed radiopharmaceuticals, ensuring a high rate of damage to cancer cells while protecting the surrounding normal tissues. Molecular cancer treatment will become more effective with individualized next-generation traceable radionuclide treatments, which will be shaped by genetic studies in the future. Radionuclide treatments for many cancer types and benign diseases are presented by experienced nuclear medicine experts in the light of their own experience and case studies, while systemic treatments in common cancer types and side effect management of these treatments are summarized by medical oncologists. This book will be of interest to nuclear medicine physicians as well as oncologists.

**177 lu psma therapy: Targeted alpha particle therapy in oncology** Asta Juzeniene, Richard P. Baum, Øyvind Bruland, Roy Larsen, 2023-03-30

**177 lu psma therapy: Beyond Becquerel and Biology to Precision Radiomolecular Oncology: Festschrift in Honor of Richard P. Baum** Vikas Prasad, 2024-01-05 This open access book is written by world-renowned experts on radiomolecular precision oncology to celebrate the work, life, principles and ideology of Richard P Baum. It includes commentaries, reviews and some thought provoking novel ideas on radionuclide precision oncology, covering topics such as various aspects of theranostics and molecular radiotherapy like radiolabeled peptides, radiolabeled antibodies, dosimetry, and quality control as well as the diagnosis and treatment of specific tumor types. Featuring contributions by biologists, physicists, chemists, mathematicians, geneticists, and physicians from a range of specialties, this Festschrift is highly interdisciplinary and will be a valuable resource for future precision oncologists.

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#### Demystifying NRC Release Criteria for Lu-177 PSMA Therapy ...

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#### <u>Lu-PSMA Therapy - Journal of Nuclear Medicine Technology</u>

Given the differential expression of PSMA between prostate cancer and normal tissue, small-molecule PSMA inhibitors have been developed, such as 177Lu-PSMA-617 (177Lu-vipivotide ...

Prostate Cancer Therapy Program - Telix

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#### Systemic Therapy Update on 177Lutetium-PSMA-617 for ...

ASCO recently published a rapid recommendation sys-temic therapy update on lutetium-177 (177Lu)-PSMA-617 (vipivotide tetraxetan) for metastatic castration-resistant prostate cancer.1 ...

#### Synthesis and Preclinical Evaluation of 177Lu-labeled ...

Jan 27, 2022 · ABSTRACT Introduction: The prostate-specific membrane antigen (PSMA)-targeted radiohybrid (rh) ligand [177Lu]Lu- rhPSMA-7.3 has recently been assessed in a ...

#### Prostate-specific membrane antigen radioligand therapy ...

specific membrane antigen (PSMA) small molecules 177Lu-PSMA-I&T and 177Lu-PSMA-617 in a large cohort of patients with metastatic castration-resistant prostate cancer (mCRPC) ...

#### PSMA-targeted radioligand therapy with [Lu]Lu-LNC1011 ...

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177Lu-PSMA radioligand therapy of predominant lymph node metastatic prostate cancer Finn Edler von Eyben 1,\* , Aviral Singh 2,\* , Jingjing Zhang 2 , Karin Nipsch 2 , Danielle

#### Joint EANM/SNMMI procedure guideline for the use of Lu ...

PSMA-targeted radioligand-therapy (177 Lu-PSMA-RLT) Clemens Kratochwil 1  $\cdot$  Wolfgang P. Fendler 2  $\cdot$  Matthias Eiber 3  $\cdot$  Michael S. Hofman 4,5  $\cdot$  Louise Emmett 6  $\cdot$ 

#### Radiation Dosimetry in 177Lu-PSMA-617 Therapy Using a ...

177Lu-PSMA Therapy and Image Acquisition Thirty patients were enrolled and underwent therapy with 177Lu-PSMA-617 for metastatic castration-resistant prostate cancer (30). The trial was ...

#### New Drugs for Targeted Radionuclide Therapy in Metastatic ...

Lutetium-177 is the radionuclide most commonly used for therapeutic purposes in prostate cancer TRT, mainly linked to small PSMA ligands ([177Lu]Lu-PSMA-617 or [ Lu]Lu-PSMA-I&T). These ...

#### PSMA-Targeted Radionuclide Therapy of Metastatic ...

cycle 1. Conclusion: 177Lu-PSMA-617 is a promising new option for therapy of mCRPC and deserves more attention in larger pro-spective trials. Key Words: PSMA; 177Lu; castration ...

#### 177Lu-PSMA-I&T Radioligand Therapy for Treating

177Lu-PSMA-I&T Radioligand Therapy for Treating Metastatic Castration-Resistant Prostate Cancer: A Single-Centre Study in East Asians Ting Bu1<sup>+</sup>, Lulu Zhang1<sup>+</sup>, Fei Yu1<sup>+</sup>, Xiaochen ...

177 Lu-PSMA

natioligand therapy 7 Lu-PSMA-RLT

Predicting outcomes after 177Lu-PSMA therapy in castration ...

PSMA ligand and [18. F]FDG PET/CT in patients undergoing [177. Lu]PSMA radioligand therapy. Eur J Nucl Med Mol Imaging. 2021; 48: 2024–30. Predicting outcomes after <sup>177</sup>Lu-PSMA . ...

#### Differences and Common Ground in 177Lu-PSMA ...

the 12mo before this study, a total of 5,906 patients received 177Lu-PSMA therapy at the 95 participating centers. Most of these patients were treated in Europe (2,840/5,906; 48%), ...

#### Lutetium-177 PSMA for prostate cancer;

States of America for [177Lu]Lu-PSMA-617 in March 2022 and to European Medical Agency (EMA) approval in December 2022. In the Netherlands, [177Lu]Lu-PSMA-I&T is reimbursed ...

#### Prostate-specific membrane antigen radioligand therapy ...

4 . or low therapeutic activity; indeed, few publications have addressed the absorbed doses delivered to tumors after . 177. Lu-PSMA radionuclide therapy, and dosimetric approaches for ...

#### Feasibility of single time point dosimetry during 177Lu-PSMA ...

Figure1: Decayschemefor177Lu. Decaydatatakenfrom[8]. 177Lu can be chemically linked to PSMA-617 which is a transmembrane protein that is naturally found on prostate cells and ...

#### Post-TherapeuticDosimetryofMetastatic Castration ...

 $Summary \bullet 177 Lu-PSMA \ radioligand \ therapy \ (RLT) \ is \ increasingly \ used to treat metastatic castration-resistant prostate cancer \ (mCRPC) \bullet Post-therapeutic \ dosimetry \ \dots$ 

#### Extended therapy with - ResearchGate

[177Lu]Lu-PSMA RLT[177Lu]Lu-PSMA-617 radioligand therapy, PSA prostate-specic antigen, eGFR estimated glomerular ltration rate, VAS visual analog scale, ECOG Eastern Cooperative ...

#### Machine Learning-Based Dose Prediction in [177Lu]Lu-PSMA ...

May 18, 2025  $\cdot$  1 Machine Learning -Based Dose Prediction in [177 Lu]Lu -PSMA -617 Therapy by Integrating Biomarkers and Radiomic Features from [68 Ga]Ga -PSMA -11 PET/ CT Short ...

#### Patient information Lutetium-177 PSMA treatment - Royal ...

What is Lutetium-177 PSMA treatment? Lutetium-177 PSMA treatment is a radioactive substance that will be given as an injection. It is a mixture of PSMA (Prostate Specific Membrane Antigen) ...

#### Prostate-Specific Membrane Antigen Radioligand Therapy

Key Words: prostate-specific membrane antigen; dosimetry; 177Lu; PSMA radioligand therapy; 177Lu-PSMA I&T; 177Lu-PSMA-617; theranostics J Nucl Med 2022; 63:1199–1207 DOI: ...

#### Long-Term Nephrotoxicity of 177Lu-PSMA Radioligand ...

icity of any stage in 9.5% of 744 patients treated with 1 7Lu-PSMA (3). C ons ite ly, hp aIV S ON r 177Lu-PSMA (1 7Lu-PSMA-RLT plus the standard of care versus the standard of care alone) ...

### Lutetium-177-PSMAtherapyforprostatecancer patients ...

To receive [177Lu]Lu-PSMA-617 therapy, patients are admitted to the nuclear medicine ward for treatment and released from the hospital according to Dutch regulatory radiation guidelines ...

## Long-Term Nephrotoxicity of 177Lu-PSMA Radioligand ...

icity of any stage in 9.5% of 744 patients treated with 177Lu-PSMA (3). Consistently, the phase III VISION trial on 177Lu-PSMA (177Lu-PSMA-RLT plus the standard of care versus the standard ...

## Nuclear Medicine & Radiation Therapy - Hilaris Publishing SRL

Preparation of [177Lu]PSMA-617 [177Lu]PSMA was prepared by addition of (200  $\mu$ g to 300  $\mu$ g) of PSMA-617 to one mL of ascobate buffer (pH ~4.5-5). 177LuCl3 (200  $\mu$ L to 400  $\mu$ L) was added ...

## Medical Services Advisory Committee (MSAC) Public Summary ...

177. Lu PSMA i&t therapy for the treatment of patients with metastatic castrate-resistant prostate cancer, and 2) whole-body PSMA PET/CT to identify those eligible for . 177. Lu PSMA i&t ...

## Long-term outcome of 177Lu-PSMA-617 radioligand therapy ...

understand the pattern of response after the 177Lu-PSMA-617 treatment. Moreover, it is also essential to know the treatment paradigm after progressing on 177Lu-PSMA-617 therapy. In ...

## German Multicenter Study Investigating Lu-PSMA-617 ...

PSMA-617 RLT. The decision for 177Lu-PSMA-617 RLT was made by the local interdisciplinary tumor board at each therapy center. RLT with 177Lu-PSMA-617 was based on a ...

## 6099 Poster Session Lu-PSMA radioligand therapy for ...

Conclusions: [177Lu]Lu-PSMA-I&T treatment in SGC pts is well-tolerated. The efficacy in AdCC was limited; only stable disease was achieved in 3 out of 10 pts. In most screened SDC pts, ...

## Beeldvorming na 177Lu-PSMA therapie 2 - PSMA forum NL

• Voor het fitten 177 Lu-PSMA data met een exponentiële functie kan een vereenvoudigd model ... (2023). "Optimization of the radiation dosimetry protocol in Lutetium-177-PSMA therapy: ...

## 177Lu-EB-PSMA Radioligand Therapy with Escalating Doses ...

a1.18 $\pm$  0.09 GBq dose of 177Lu-EB-PSMA. Group B (n 5 10) was treated with a 2.12  $\pm$  0.19 GBq dose of 177Lu-EB-PSMA. Group C (n 5 8) was treated with a 3.52  $\pm$  0.58 GBq dose of 177Lu ...

## Organ and tumour dosimetry of Lu-rhPSMA-10.1, a novel ...

same patient, 177Lu-rhPSMA-10.1 can deliver up to 8-fold greater radiation doses to the tumour than 177Lu-PSMA-I&T, with 177Lu-rhPSMA-10.1 shown to have a more favourable tumour-to ...

## **Review of 177Lu-PSMA-617 in Patients With Metastatic**

One of the earliest experiences with 177Lu-PSMA-617 radioligand therapy (RLT) was described by Ahmadzadehfar et al. in 2015 [10]. Ten patients with mCRPC were recruited to undergo  $\dots$ 

## Lutetium-177 PSMA (Lu-PSMA) Therapy - Sydney Adventist ...

Lutetium-177 PSMA (Lu-PSMA) Therapy Radiation Safety Instructions for Patients May 2023 You have been treated with a radioactive compound ... Typically within 2 hours of the administration ...

#### Preliminary efficacy and safety results from the TATCIST trial: ...

Preliminary efficacy and safety results from the TATCIST trial: A PSMA-directed targeted alpha therapy with FPI-2265 (225Ac-PSMA-I&T) for the treatment of metastatic castration-resistant ...

#### Clinical Outcomes of 177Lu-PSMA Radioligand Therapy in ...

fore 177Lu-PRLT were excluded from this analysis. 177Lu-PRLT Administration Radiolabeling of 177Lu-PSMA-617 and 177Lu-PSMA-I&T as well as our administration procedure for 177Lu ...

#### <u>177Lu-Labeled Prostate-Specific Membrane Antigen ...</u>

levels and were referred to our center underwent 125 cycles of 177Lu- PSMA RLT between May 2013 and June 2015 (1 cyclefor 16 patients, 2 cycles for 15 patients, 3 cycles for 17 patients, 4 ...

#### **Dosimetry Needs and Methods for SRT: Lu-177 - rrp.cancer.gov**

NCI Workshop on Dosimetry of Systemic Radiopharmaceutical Therapy (SRT) Rockville, MD, April 19-20, 2018. ... a consultant for MIM Software, Inc. Lu-177 Imaging/Dosimetry •Used in ...

#### Radiobiological Assessment of Targeted Radionuclide ...

Radiobiological Assessment of Targeted Radionuclide Therapy with [177Lu]Lu-PSMA-I&T in 2D vs. 3D Cell Culture Models Julia Raitanen 1,2,3,4, Bernadette Barta 1, Hermann Fuchs 5, ...

#### PSMA-directed radioligand therapy (PSMA-RLT) with ...

177. Lu-PSMA therapy, as a way of measuring its safety as well as its effectiveness in patients with mCRPC. Due to the short interval of introduction of this therapy, radiation dose will be ...

#### Article Lu PSMA 617 Therapy in Mice, with or without the ...

177Lu-labeled PSMA-617 ([177Lu]Lu-PSMA-617) therapy, kidneys have received as much as 30 Gy without nephrotoxicity above grade 2 being observed for up to 12 weeks after the last ...

#### Single Chelator Minibody Theranostic Agents for 89 Imaging ...

Single Chelator-Minibody Theranostic Agents for 89Zr PET Imaging and 177Lu Radiopharmaceutical Therapy of PSMA-Expressing Prostate Cancer Khanh-Van Ho1,2, David ...

#### Unraveling the Impact of Lu-PSMA Radioligand Therapy on ...

ize the longer-term nephrotoxicity of [177Lu]Lu-PSMA therapy. The first [177Lu]Lu-PSMA therapies were administered a decade agoinGermany(5,6); it is therefore fitting that long-term ...

#### Is 18F-FDG PET Needed to Assess 177Lu-PSMA Therapy ...

ted with 177Lu-PSMA therapy, whereas 37 patients were not treated with 177Lu-PSMA therapy. Median prostate-speci fic antigen (PSA) level was 176 ng/mL (interquartile range, 32.5 ...

#### 177Lu-Prostate-Specific Membrane Antigen Therapy in ...

Oct 12, 2023  $\cdot$  sured during 177Lu-PSMA therapy. Additional analyses were conducted for patients who received 177Lu-PSMA therapy for less than 6 mo versus 6 mo or more after the ...

#### 177Lu-PSMA Therapy

differential expression of PSMA between prostate cancer and normal tissue, small-molecule PSMA inhibitors have been developed, such as 177Lu-PSMA-617(177Lu-vipivotidetetrax-etan; ...

#### Radioligand Therapy With 177Lu-PSMA for Metastatic ...

177Lu-PSMA Radioligand Therapy for Prostate Cancer Nuclear Medicine and Molecular Imaging Review. 276 AJR:213, August 2019 Yadav et al. file and significantly improves the quality of life ...

#### Estimation of relative biological effectiveness of - Springer

of DNA damages in the cell nucleus. [177Lu]Lu-PSMA therapy of patients with mCRPC represents a well-established therapy option under usage of  $\beta$ --emitting 177 Lu [4]. How - ever, there is a ...

#### External radiation exposure, excretion, and effective half-life in ...

ORIGINAL RESEARCH Open Access External radiation exposure, excretion, and effective half-life in 177Lu-PSMA-targeted therapies J. Kurth1\*, B. J. Krause1, S. M. Schwarzenböck1, L. ...

#### 177Lu-PSMA-617 Therapy in Mice, with or without the ...

suggested by Bodei et al. [10]. In a study on patients treated with 177Lu-DOTATATE by Bergsma et al. little toxicity was seen in patients with a kidney absorbed dose exceeding 28 Gy ...

#### A single-arm, low-dose, prospective study of 177Lu-EB-PSMA

Nov 3,  $2022 \cdot bone$  marrow and kidneys also showed higher 177Lu-EB-PSMA uptake than 177Lu-PSMA-617 (9). Subsequently, Zang et al. conducted an escalating dose study, which revealed ...

#### INTERESTING IMAGE 177Lu-rhPSMA-10.1 Induces Tumor

177Lu-rhPSMA-10.1 Induces Tumor Response in a Patient With mCRPC After PSMA-Directed Radioligand Therapy With 177Lu-PSMA-I&T Ralph A. Bundschuh, MD, PhD, Christian H. Pfob, ...

#### Lu-177 Based Theranostic Checklist - Society of Nuclear ...

Develop therapy protocols for each Lu177-based treatment to be performed at the facility with associated paperwork such as AU written directive and patient release, in accordance with ...