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REVIEW

Conquering lung cancer: current status and prospects for the future

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KEYWORDS

Chemotherapy; Immune checkpoint inhibitors; Multimodality therapy; Screening; Targeted therapies; Tobacco control Abstract: Lung cancer is a major global health problem. Several strategies are required to conquer this cancer. Stricter implementations of tobacco control measures are recessary. Early detection programs should be implemented to decrease lung cancer mortality. Although chemotherapy remains a cornerstone of treatment, targeted therapies and immune checkpoint inhibitors improved treatment of metastatic cancers and are hoped to improve outcome of adjuvant and induction therapies. Novel immunotherapy approaches hold great promise. Better understanding of the molecular biology of lung cancer should lead to rational drug design. O 2020 Published by Elsevier España, S. L. U. on behalf of Sociedade Portuguesa de Pneumologia. This is an open access article under the CC BY-NC-ND license (http://oreativecommons.org/

Introduction

Lung cancer is a global health problem. Approximately 2.1 million individuals are diagnosed with lung cancer and 1.8 million die from this cancer each year. Lung cancer rates continue to increase on the global level, although the rates are declining among males in some Western countries. Non-small cell lung cancer (NSCLC) makes up about 85% and small cell lung cancer (SCLC) about 15% of lung cancers. Pathological diagnosis is based on histology, immune histology and molecular analysis. Lung cancers are currently staged according to the eighth edition of the TNM Classification for Lung Cancer. ** Tumor stage is important for prognosis and treatment. ** Overall, the five year survival rates are

15-20%. Among patients with NSCLC, these rates reach 90% for stage 1A1 but drop below 10% for stage 4. Among patients with SCLC, the rates are about 30% for limited disease and below 10% for extensive disease.

Treatment of patients with lung cancer requires multidisciplinary co-operation and is based on surgery, radiotherapy, systemic treatments (chemotherapy, targeted therapies, immune checkpoint inhibitors) and supportive care including end-of-life care. Treatment depends on tumor characteristics, tumor stage and patient-related factors. Finally, access to and re-imbursement of novel drugs are becoming an increasing challenge for many countries.

Major diagnostic and therapeutic advances have occurred during the last three decades. Here, the current status of systemic treatment and strategies for conquering lung cancer are described.

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Lung Cancer Current Status Prospects

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Issues and Challenges in NSCLC Immunotherapy Paweł Adam Krawczyk, Qing Zhou, Rafal Dziadziuszko, Natasha Immunotherapy in specific patients with lung cancer Yi Zhao, Tao Jiang, Alessandro Russo, Dawei Leighl,2021-12-06 The Effect of Anti-Cancer Drug Therapies in the Treatment of Lung Cancer Pasquale Pisapia, Cyril Chen, 2023-04-12 Cancer Vaccination and Challenges Rishabha Malviya, Bhupendra Prajapati, Sonali Corbet, Zhi Li, 2022-11-24 Sundram, 2024-11-22 Volume 1 Strategies for Therapeutic Cancer Vaccine Development deals with strategies of cancer vaccine development focussing on the techniques for the development of therapeutic cancer vaccines and the role of tumor antigens proteins peptides microbial genes and stem cells for the development of vaccines for cancer management Volume 2 Delivery Strategies for Cancer Vaccine and Immunotherapy in Management of Various Carcinomas covers delivery strategies of cancer vaccines for the management of various forms of carcinoma examining the prospects of delivering immuno oncology therapies focusing specifically on effective drug delivery strategies for the treatment of lung prostate and Journal of the National Cancer Institute, 2006-05 Each issue is packed with extensive news about pancreatic carcinomas important cancer related science policy politics and people Plus there are editorials and reviews by experts in the field book reviews and commentary on timely topics **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 Lung Cancer Clifton F. Mountain, David T. Carr, 1986 Mechanisms and Tumor Dormancy T. H. M. Stewart, E. Frederick Wheelock, 2017-07-28 Cellular Immune Mechanisms and Tumor Dormancy features the work of internationally recognized experts from various disciplines as they discuss the phenomenon of tumor dormancy in humans Animal models are described in which cellular and molecular components of the immune control of dormancy have been identified and the relevance of these models to human cancer patients is recognized Data derived from studies of organ transplantation adjuvant chemotherapy radiotherapy anaesthesia surgery and whole blood transfusion is presented to show the vulnerability of cellular mechanisms maintaining dormancy. The potential for increasing the incidence of dormancy in micro metastases is also shown for non small cell lung cancer lymphoma and leukemia Cellular Immune Mechanisms and Tumor Dormancy is an important reference volume that will benefit researchers from many disciplines including immunologists pathologists surgeons and clinicians **Outcome Prediction in Cancer** Azzam F.G. Taktak, Anthony C. Fisher, 2006-11-28 This book is organized into 4 sections each looking at the question of outcome prediction in cancer from a different angle The first section describes the clinical problem and some of the predicaments that clinicians face in dealing with cancer Amongst issues discussed in this section are the TNM staging accepted methods for survival analysis and competing risks The second section describes the biological and genetic markers and the r le of bioinformatics Understanding of the genetic and environmental basis of cancers will help in identifying high risk populations and developing effective prevention and early detection strategies The third section provides technical

details of mathematical analysis behind survival prediction backed up by examples from various types of cancers The fourth section describes a number of machine learning methods which have been applied to decision support in cancer The final section describes how information is shared within the scientific and medical communities and with the general population using information technology and the World Wide Web Applications cover 8 types of cancer including brain eye mouth head and neck breast lungs colon and prostate Include contributions from authors in 5 different disciplines Provides a valuable educational tool for medical informatics Recent Advances in Theories and Practice of Chinese Medicine Haixue Kuang, 2012-01-18 During the recent years traditional Chinese medicine TCM has attracted the attention of researchers all over the world It is looked upon not only as a bright pearl but also a treasure house of ancient Chinese culture Nowadays TCM has become a subject area with high potential and the possibility for original innovation This book titled Recent Advances in Theories and Practice of Chinese Medicine provides an authoritative and cutting edge insight into TCM research including its basic theories diagnostic approach current clinical applications latest advances and more It discusses many often neglected important issues such as the theory of TCM property and how to carry out TCM research in the direction of TCM property theory using modern scientific technology. The authors of this book comprise an international group of recognized researchers who possess abundant clinical knowledge and research background due to their years of practicing TCM Hopefully this book will help our readers gain a deeper understanding of the unique characteristics of Chinese medicine

Cancer Patients, Cancer Pathways C. Timmermann, E. Toon, 2012-10-10 Eleven essays by historians and sociologists examine cancer research and treatment as everyday practice in post war Europe and North America These are not stories of inevitable medical progress and obstacles overcome but of historical contingencies cultural differences hope and often disappointed expectations Circulating Molecular Biomarkers: Next-Generation Tools for Monitoring Minimal Residual Disease in Cancer Patients Zohreh Amoozgar, Rana Jahanban-Esfahlan, Mehdi - Jaymand, 2023-08-16 Traditional cancer diagnosis relies on tissue biopsy blood testing as well as medical imaging By the detection moment in most cases the tumor size may reach several millimeters and the risk of distant metastasis is unavoidable Even following drug treatment there is no accurate and timely way to follow up the success of treatment New reliable tumor specific biomarkers tools that allow non invasive early cancer detection as well as monitoring of anti cancer therapeutic regime is highly demanded To tackle limitations of traditional cancer management liquid biopsy has emerged which screen bodily fluids using ultrasensitive biosensing systems capable of simultaneous capturing and studying horizontal gene transfer HGT materials including circulating tumor cells CTCs exosomes cell free DNA and apoptotic bodies These are messengers and or delivery systems by which tumor cells are communicating as well as transforming sharing new phenotypes with each other resulting in drug resistance distant metastatic outbreaks and cancer recurrence Acting as next generation prognostic and therapeutic tools call for understanding the molecular mechanisms by which HGT works to tran National Library of Medicine Current

Catalog National Library of Medicine (U.S.),1987 Neuro-Oncology of CNS Tumors Jörg-Christian Tonn, Manfred Westphal, J. T. Rutka, S.A. Grossman, 2006-01-16 Diagnosis and treatment modalities for neuro oncologic diseases have made considerable advances in recent years. There is hardly a segment of the field of solid tumours that is experiencing such dynamic development with regard to basic scientific findings and clinical results In the present book the world's leading experts have compiled the current practice relevant knowledge of neuro oncologic deseases The book s clear structure and the uniform presentation of all chapters make this volume a valuable reference especially for practice oriented activities allowing swift access to information about current treatment standards Hence it will be of great value to both clinicians and Intracranial Metastases Raymond Sawaya, 2008-04-15 This is the first comprehensive textbook on researchers intracranial metastases in over 20 years with an update on current methods for their management including the use of newer technologies Each of the various histological types of cancer metastasizing to the brain is presented separately in a detailed analysis and discussion This volume includes a consideration of the epidemiology of brain metastases and the quality of life in patients who have them Special topics not previously covered are reviewed including metastasis to the skull base and strategies for preventing cancer from metastasizing to the brain A novel feature is a chapter devoted to the use of recent techniques such as functional magnetic resonance MR imaging MR spectroscopy metabolite mapping and dynamic susceptibility contrast imaging regional cerebral blood volume mapping to characterize brain metastases in terms of the sensorimotor perturbations they produce their metabolic response to therapy and their degree of vascularization respectively

Reprogramming the Cellular, Molecular and Metabolic Architecture of the Tumor Microenvironment for Effective Cancer Immunotherapy Soumen Chakraborty, David Han, Deepak Kumar, Anil Shanker, 2023-02-16 **Cumulated Index Medicus**, 1979 Uncover the mysteries within Crafted by is enigmatic creation, Embark on a Mystery with **Lung Cancer Current Status Prospects**. This downloadable ebook, shrouded in suspense, is available in a PDF format (Download in PDF: *). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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Table of Contents Lung Cancer Current Status Prospects

- 1. Understanding the eBook Lung Cancer Current Status Prospects
 - The Rise of Digital Reading Lung Cancer Current Status Prospects
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Lung Cancer Current Status Prospects
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lung Cancer Current Status Prospects
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Lung Cancer Current Status Prospects
 - Personalized Recommendations
 - Lung Cancer Current Status Prospects User Reviews and Ratings
 - Lung Cancer Current Status Prospects and Bestseller Lists
- 5. Accessing Lung Cancer Current Status Prospects Free and Paid eBooks
 - Lung Cancer Current Status Prospects Public Domain eBooks
 - Lung Cancer Current Status Prospects eBook Subscription Services
 - Lung Cancer Current Status Prospects Budget-Friendly Options
- 6. Navigating Lung Cancer Current Status Prospects eBook Formats

- o ePub, PDF, MOBI, and More
- Lung Cancer Current Status Prospects Compatibility with Devices
- Lung Cancer Current Status Prospects Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lung Cancer Current Status Prospects
 - Highlighting and Note-Taking Lung Cancer Current Status Prospects
 - Interactive Elements Lung Cancer Current Status Prospects
- 8. Staying Engaged with Lung Cancer Current Status Prospects
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lung Cancer Current Status Prospects
- 9. Balancing eBooks and Physical Books Lung Cancer Current Status Prospects
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lung Cancer Current Status Prospects
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Lung Cancer Current Status Prospects
 - Setting Reading Goals Lung Cancer Current Status Prospects
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lung Cancer Current Status Prospects
 - Fact-Checking eBook Content of Lung Cancer Current Status Prospects
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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