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Influence of treatment-related lymphopenia on the efficacy of immune checkpoint inhibitors in lung cancer: a meta-analysis

Ye Zhang, Cheng Huang and Shangqing Li*

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Background: Treatment-related lymphopenia (TRL) is common in patients with lung cancer, particularly in those with radiotherapy. However, the influence of TRL on the efficacy of immune checkpoint inhibitors (ICIs) for patients with lung cancer remains poorly understood. We performed a systematic review and meta-analysis to investigate the influence of TRL on survival of lung cancer patients on ICIs.

Methods: In order to accomplish the aim of the meta-analysis, a comprehensive search was conducted on databases including PubMed, Embase, Cochrane Library, and the Web of Science to identify observational studies with longitudinal follow-up. The Cochrane Q test was employed to evaluate heterogeneity among the included studies, while the I^2 statistic was estimated. Random-effects models were utilized to merge the results, considering the potential impact of heterogeneity.

Results: Ten cohort studies with 1130 lung cancer patients who were treated with ICIs were included. Among them, 427 (37.8%) had TRL. Pooled results showed that compared to patients without TRL, patients with TRL were associated with poor progression-free survival (hazard ratio [HR]: 2.05, 95% confidence interval [CI]: 1.62 to 2.60, $p < 0.001$; $I^2 = 22\%$) and overall survival (HR: 2.69, 95% CI: 2.10 to 3.43, $p < 0.001$; $I^2 = 0\%$). Sensitivity analysis limited to patients with non-small cell lung cancer showed similar results (HR: 2.66 and 2.62, both $p < 0.05$). Moreover, subgroup analyses according to the diagnostic criteria of TRL, regression analysis model (univariate or multivariate), and indications of ICIs (for locally advanced or advanced lung cancer) showed consistent results (p for subgroup difference all > 0.05).

Conclusion: TRL was associated with poor survival of lung cancer patients who were treated with ICIs.

KEYWORDS

lung cancer, lymphopenia, immunotherapy, survival, meta-analysis

Lymphopenia Treatment Manual Guide

**Deborah Doherty, Chris Wilson, Lori
Boright**



Lymphopenia Treatment Manual Guide:

Standard Treatment Guidelines—A Manual for Medical Therapeutics, 6e Sangeeta Sharma,GR Sethi,2021-09-01

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Diagnostic and Laboratory Tests - E-Book Kathleen Deska Pagana, Timothy J. Pagana, Sandra A.

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Guidelines, 3/ed Sangeeta Sharma,2008 **Radiation Sickness** Toney Allman,2013-01-04 Author Toney Allman discusses the devastating effects of radiation sickness After exploring the fundamentals of radiation and the various methods of possible radiation exposure Allman uses examples from Chernobyl the bombings of Hiroshima and Nagasaki as well as other radiation events to outline the stages and syndromes associated with radiation exposure The book also addresses the current concern for better treatment options and ongoing tests and studies being conducted towards this end *Braddom's Physical Medicine and Rehabilitation E-Book* David X. Cifu,2015-08-02 The most trusted resource for physiatry knowledge and techniques Braddom s Physical Medicine and Rehabilitation remains an essential guide for the entire rehabilitation team With proven science and comprehensive guidance this medical reference book addresses a range of topics to offer every patient maximum pain relief and optimal return to function In depth coverage of the indications for and limitations of axial and peripheral joints through therapies enables mastery of these techniques Optimize the use of ultrasound in diagnosis and treatment A chapter covering PM R in the international community serves to broaden your perspective in the field Detailed illustrations allow you to gain a clear visual understanding of important concepts New lead editor Dr David Cifu was selected by Dr Randall Braddom to retain a consistent and readable format Additional new authors and editors provide a fresh perspective to this edition Features comprehensive coverage of the treatment of concussions and military amputees Includes brand new information on rehabilitating wounded military personnel the latest injection techniques speech swallowing disorders head injury rehabilitation and the rehabilitation of chronic diseases New chapters on pelvic floor disorders and sensory impairments keep you at the forefront of the field Reader friendly design features an updated table of contents and improved chapter approach for an enhanced user experience Expert Consult eBook version included with purchase This enhanced eBook experience gives access to the text figures over 2 500 references 51 videos and 750 self assessment questions on a variety of devices Oncology Rehabilitation E-Book Deborah Doherty,Chris Wilson,Lori Boright,2022-07-23 Coverage of physical therapy patient management includes acute care outpatient and multidisciplinary clinical settings along with in depth therapeutic management interventions Content on the continuum of cancer care addresses the primordial primary secondary tertiary and quaternary stages in prevention and treatment Focus on clinicians includes the professional roles responsibilities self care and values of the oncology rehabilitation clinician as an integral member of the cancer care team Information on inseparable contextual factors helps in dealing with administrative infrastructure and support advocacy payment and reimbursement of rehabilitation as well as public policy Evidence Summary and Key Points boxes highlight important information for quick at a glance reference Clinical case studies and review questions enhance your critical thinking skills and help you prepare for board certification specialty practice and or residency Enhanced eBook version included with print purchase allows you to access all of the text figures and references from the book on a variety of devices Resources in the eBook include videos board review questions case studies and a curriculum map to highlight and

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Palliative and Hospice Nursing Care Guidelines Patricia Moyle Wright, 2023-09-23 Supports clinicians in providing the best possible care to patients with serious illness The first comprehensive clinical guide for practicing palliative care and hospice clinicians this evidence based reference is designed to promote best practices in the delivery of safe compassionate patient care With a dual focus on evaluation and intervention the book covers all aspects of providing palliative and hospice care for vulnerable and diverse populations It provides an overview of common disease manifestations typical trajectories of illness symptom management and recommendations for nursing care Written in easy to access outline format the resource is organized by body system and includes common diagnoses encountered in palliative and hospice care Individual diagnoses include a definition incidence etiology pathophysiology predisposing factors subjective and objective data diagnostic tests differential diagnoses complications disease modifying treatments palliative interventions symptom management prognosis and nursing interventions The text provides referral guidelines for serious illness as well as general and disease specific hospice care admission guidelines Also included are comprehensive tables of diagnostic testing disease specific palliative and symptom management interventions prognostic and screening tools patient teaching and clinician resources and guides to pain management and wound care Key Features Delivers current guidelines for management of symptoms associated with serious illness Provides an in depth review of common conditions seen in palliative and hospice care Organized by body system for quick information retrieval Delivers in depth evidence based and consistently organized disease specific guidelines Presents hospice and palliative care management guidelines Contains reproducible patient family education handouts Reviews procedures commonly used in hospice and palliative practice **Lymphocyte Homing to the Skin**

Wolf-Henning Boehncke, 2004-12-28 Over the last decade enormous progress in the understanding of T cell homing has made it possible to identify the multitude of molecules involved such as cytokines chemokines and adhesion molecules and to unravel their complex interactions resulting in controlled non random T cell recirculation These insights are now being explored therapeut *Henry's Clinical Diagnosis and Management by Laboratory Methods E-Book* Richard A.

McPherson, Matthew R. Pincus, 2017-04-05 Recognized as the definitive reference in laboratory medicine since 1908 Henry's Clinical Diagnosis continues to offer state of the art guidance on the scientific foundation and clinical application of today's complete range of laboratory tests Employing a multidisciplinary approach it presents the newest information available in the field including new developments in technologies and the automation platforms on which measurements are performed Provides guidance on error detection correction and prevention as well as cost effective test selection Features a full color layout illustrations and visual aids and an organization based on organ system Features the latest knowledge on cutting edge technologies of molecular diagnostics and proteomics Includes a wealth of information on the exciting subject of omics these

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Treatment of Skin Disease E-Book Mark G. Lebwohl, Warren R. Heymann, John Berth-Jones, Ian Coulson, 2017-09-19 Covering more than 250 of the most common dermatologic conditions from A to Z Treatment of Skin Disease 5th Edition by Drs Mark G Lebwohl Warren R Heymann John Berth Jones and Ian Coulson is your go to resource for authoritative evidence based treatment strategies in your daily practice This award winning text provides guidance on the fast moving dermatological therapy options for virtually any skin disease you re likely to encounter including third line and unusual therapies when initial options have not been successful Summaries of each treatment strategy are accompanied by detailed discussions of treatment choices with ratings on a consistent scale ranging from clinical studies to anecdotal reports Puts every possible therapeutic option at your disposal including management strategies and first to third line therapies for a truly complete guide to the vast array of dermatologic treatment options Presents information in a consistent tabular format with checklists of diagnostic and investigative pearls and color coded boxes for quick reference Offers the combined knowledge and expertise of the world s leading authorities in dermatology Features eight all new chapters on Atypical Fibroxanthoma Confluent and Reticulated Papillomatosis Cryopyrin Associated Periodic Syndromes CAPS Hypopigmented Dermatoses Nail Psoriasis Necrolytic Acral Erythema Post inflammatory Hyperpigmentation and Regional Pain Provides more than 250 full color clinical images of skin diseases most of which are new to this edition Includes off label uses new treatments like therapeutic antibodies and hedgehog inhibitors and new indications for existing treatments

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[MYCDCGP - Guidelines for the Management of Adult HIV Infection With Antiretroviral Therapy](#) Bahagian Kawalan Penyakit, Kementerian Kesihatan Malaysia, *Acute Care Handbook for Physical Therapists* Jaime C Paz, Michele P West, 2013-09-27 Review of body system basics and disease processes in each chapter provides concise information to help you better manage patients in a hospital setting Familiarizes you with the acute care environment by explaining medical terminology hospital protocol and surgical workups Includes

updated information on medications laboratory and diagnostic tests and surgical and invasive procedures pertinent to physical therapy practice Clinical tips throughout the text show you how to maximize safety quality and efficiency of care Over 350 illustrations tables and boxed text highlight essential concepts and procedures for quick reference Uses terminology consistent with the Guide to Physical Therapist Practice Second Edition Focuses on evidence based practice to help you determine the best interventions including recent literature regarding rehabilitation in the critical care setting NEW Pertinent practice patterns from the Guide to Physical Therapist Practice Second Edition are included in each chapter NEW Additional illustrations to improve comprehension of the material NEW More pharmacologic implications for physical therapists specifically concerning side effects and use of combination drugs NEW Additional decision making algorithms facilitate critical thinking in the clinical setting NEW Updated surgical and invasive procedures include minimally invasive orthopedic surgery bariatric procedures and complete insight into circulatory assist devices NEW Expanded neurological chapter including vestibular dysfunction tests and measures a discussion of dementia and the latest in stroke evaluation and management NEW Revised appendices discuss the latest concepts in documentation standards palliative care and patient safety NEW Slimmer larger format allows the book to lie open for easier reading NEW Improved design highlighting clinical tips and other key features lets you locate important information quickly in a busy clinical setting [The Essential HIV Treatment Fact Book](#) Laura Pinsky, Paul Harding Douglas, Craig Metroka, 1992-11 The authors of The Essential AIDS Fact Book suggest ways to control the HIV virus while more effective treatments are being developed Sections include HIV Antibody Testing Obtaining Treatment Health Care Strategies Drugs that Help Living with HIV Managing Complications and more [Essentials of Cardiopulmonary Physical Therapy - E-Book](#) Ellen Hillegass, 2010-12-10 NEW chapters cover the lymphatic system and pediatrics Revised chapters on cardiopulmonary anatomy and physiology differentiate between information that is need to know and that is nice to know An Evolve companion website includes medical animations to illustrate concepts along with a glossary glossary exercises and reference lists from the book linked to MEDLINE abstracts

Adult-Gerontology Acute Care Practice Guidelines Catherine Harris, 2023-05-10 Praise for the first edition from Doody's Medical Reviews Score 93 This well developed book provides acute care guidelines for the geriatric population in an easy to follow format that uses structural elements such as numbering and multilevel lists for each system It is an excellent reference for advanced practice prepared clinicians to help identify diagnose and develop a treatment plan for acute health issues in older adults and geriatric patients Tho Nguyen DNP MSN RN Newly updated this evidence based resource the first of its kind provides NPs PAs and other advance practice providers with the essential clinical knowledge they need to effectively practice adult gerontology acute care The second edition covers 10 new conditions and delivers numerous clinical updates on drugs pain management sedation nutritional management and clinical and screening guidelines Along with relevant information on Covid 19 it examines more acid base and neurological disorders and explains the use of Point of Care

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Infection Control Procedures N. N. Damani, 2003 Provides a comprehensive overview of the main aspects of infection control and gives practical evidence based recommendations

Regulatory Aspects of Gene Therapy and Cell Therapy Products Maria Cristina Galli, 2023-08-01 This book discusses the different regulatory pathways for Advanced Therapy Medicinal Products implemented by national agencies in North and South America Europe and Asia and by international bodies in the effort of international harmonization This book represents an update of the first edition as it covers regulatory novelties and accumulated experience in the regions already addressed In addition this new edition offers a wider international perspective new chapters are included covering Advanced Therapy Medicinal Products regulations in India Malaysia Spain and Thailand the European Pharmacopoeia texts for gene therapy medicinal products as well as international harmonization programs Each chapter authored by experts from various regulatory bodies throughout the international community walks the reader through the applications of nonclinical research to translational clinical research to licensure and therapeutic use of these innovative products More specifically each chapter offers insights into fundamental considerations that are essential for developers of Advanced Therapy Medicinal Products in the areas of product quality pharmacology and toxicology clinical trial design and HTA pathways as well as pertinent must know guidelines and regulations

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