

Case Report

Progressive Exertional Dyspnea and Fatigue in an Oncology-Patient

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Abstract

Background: Progressive fatigue even further dyspnea are common between oncology patients, however the development of these symptoms in a patient who has been treated with some of the new immune checkpoint inhibitors must make us thinking of a possible adverse event of these drugs.

Case Report: We report a case of a 78-year-old man with a history of ischemic heart disease, who presented with fatigue, elevated myocardial enzymes and atrioventricular block in the electrocardiogram. He had been diagnosed of lung cancer and included in a clinical study with combination therapy of ipilimumab and nivolumab. I earlier investigation during hospitalization revealed also myocardial, thyroid and neurological affection. After we started immunosuppressive therapy the patient died three days after diagnosis.

Conclusion: This report a case of myocarditis due to new immune checkpoint inhibitors use for cancer treatment. Although this type of toxicity has not been reported, we still lack of a score risk to predict high risk patients or genetic predisposing. Since an early diagnosis and prompt treatment could prevent the fast development we encourage medical practitioners to report a high degree of suspicion.

Keywords: Dyspnea, Lung cancer, Atrioventricular block, Myocarditis, Ischemic Myocarditis

Introduction

We present a case of a suspected myocarditis and multiorgan toxicity due to immune checkpoint inhibitors used in cancer treatment. Some cases have been reported in the literature although the peculiarity of this case was the multiorgan and multisystemic affection.

We are attending the ongoing development of cancer treatment, which allows patients to the most promising cases to the complete resolution of the disease. However, to get the aim many trials and surveillance studies must have performance. The release of biological targeted medications has parallel with the latest cancer resistance to conventional drugs. But we need to balance risks through the programs to offer very good, a detailed assessment of the advantages and disadvantages taking into account the patient and family's preferences.

However we could think that more specific treatment would lead us to less aggressive adverse events, but that's not the case with immune checkpoint inhibitor drugs.

Case Report

A 78-year-old male, ex-smoker, who had a history of ischemic heart disease 40 years ago, with previous angiotensin II, was diagnosed in June 2019 of a new small cell lung cancer (epidermal cell carcinoma disseminated to liver without any remarkable metastatic spreading). He was proposed to take part in a clinical study that evaluate the interest to nivolumab 3mg/kg every 2 weeks associated to

ipilimumab 1 mg/kg every 3 weeks, beginning the above mentioned treatment five months later and reaching the first dose of nivolumab on November 24th.

Patients whose tumors do not contain a driver mutation or do not have 100 percent expression of Programmed Death Ligand 1 (PD-L1), or whose early intervention is unknown, combination therapy using a platinum-based doublet is generally recommended. This approach has been associated with an improved survival, which was independent of histology, performance status, and age [1].

Ipilimumab (an anti-CTLA-4 antibody) and nivolumab (an anti-PD-1 monoclonal antibody) have been used for metastatic melanoma with promising results, so this combination is under investigation in other metastatic histologies [2,3].

After two weeks of drugs administration he came to the emergency department for symptoms of breath of approximately a week of evolution. An initial workup revealed a prolongation of 27mm of the PR interval, minimal leukopenia and neutrophilia, according with an elevation of C-Reactive Protein (CRP) and a permanent raised troponin I around 3.8 µg/L (normal level, 0.057). A transthoracic echocardiography showed no interesting finding as well as a chest and abdominal CT scan that revealed a doubtful tumoral wall-verts calcification.

Within the first hours the patient presented slight respiratory insufficiency and a high degree arrhythmization block, including some complete block episodes as we can observe in figure 1, as he was taken to the intensive care unit where a permanent pacemaker was

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Manual of Clinical Problems in Cardiology L. David Hillis, Jack E. Ormand, James T. Willerson, 1980 This Spiral R Manual is a current convenient and practical guide to the management of more than 125 cardiac problems encountered in daily practice Each concise chapter includes definition etiology epidemiology clinical findings investigations treatment and a brief discussion of pathophysiology This Sixth Edition is thoroughly updated and includes extensively revised chapters on catheter ablation of tachyarrhythmias myocardial infarction new devices for coronary revascularization and anticoagulant and antiplatelet agents Medical Problems in Women over 70 Margaret Rees, Louis Keith, 2007-05-30 Care of the older person is characterized by increasing incidence of chronic and acute diseases with many patients suffering from several conditions simultaneously The susceptibility to disease increases not only because of physiological factors relating to the aging process but also due to changes in lifestyle such as decreased mobility These factors are particularly true of women who tend to live longer and who undergo more dramatic physiologic changes such as those associated with the menopause This book is designed to educate gynecologists and other healthcare professionals about these issues It draws upon the experience of specialists in a variety of clinical and non clinical specialties reviews current knowledge of the problems encountered in caring for the elderly female patient and suggests guidelines for best practice **Management of Cardiac Problems in Primary Care** Clive Handler, Gerry Coghlan, 2018-04-19 Clive Handler and Gerry Coghlan have written a book that will become essential reading for the primary care physician managing cardiac problems in the new age of medical practice In it they give clear concise and readable information on diagnosis management and treatment priorities in this most important field of medicine The book uses current evidence and follows current guidelines to direct the clinician in treating conditions seen every day in general practice It builds confidence in understanding the role and responsibility in commissioning cardiology specialist care The narrative is peppered with real patient problems and sections giving advice to patients in layman s language This book will not only promote the primary care physician s ability to manage problems in house but also guide the commissioning clinician on putting in place appropriate and efficient specialist services An excellent text that will be a valuable addition to the libraries of all general practices Buy more than one copy clinicians from practice nurses students and registrars to the most senior doctors will all find it essential reading Hearings, Reports and Prints of the House Committee on Appropriations United States. Congress. House. Committee on Appropriations, 1968 **Cardiac Replacement** National Heart Institute (U.S.). Ad Hoc Task Force on Cardiac Replacement, 1969 Manual of Gynecardiology Angela H.E.M. Maas, C. Noel Bairey Merz, 2017-06-12 This book provides a much needed internationally oriented text focusing on specific aspects of heart disease in women Despite the large amount of information available there is still considerable confusion regarding female patients As such the book highlights the health events that occur during aging in women and that may influence the future CVD risk For instance pregnancy related disorders are important

predictors for CVD risk in women and inflammatory diseases like rheumatic thyroid disorders etc which also interfere with CVD risk are also more common in women Adopting a multidisciplinary approach including gynecology and endocrinology it offers separate chapters on female specific manifestations of ischemic heart disease such as Tako Tsubo CMP and spontaneous coronary artery dissections The book also discusses the effects and side effects of important medications The chapters are clearly formatted making it easy for readers to find subjects of interest **The Harvard Medical School**

Guide to Men's Health Harvey B. Simon, 2004-02-03 Presents practical health advice for men covering diet and exercise supplements alcohol stress control men's diseases and disorders and the health care system Cardiac

Fibrillation-defibrillation: Clinical And Engineering Aspects Max E Valentinuzzi, 2010-10-21 This compendium gives a comprehensive overview of the advances in fibrillation defibrillation knowledge recognition of fibrillation as a unique life threatening cardiac arrhythmia discovery of the electric discharge in its double role of culprit and savior and technological improved contributions The book stands on the well known philosophy of Education Based on Problems or EBP that is take fibrillation as a medical daily problem and search for that knowledge technique or principle trying to solve it The book is interdisciplinary multidisciplinary and transdisciplinary It addresses undergraduate and graduate biomedical engineering students physicians going into cardiology clinical engineers and clinical engineering technicians nurses paramedics and emergency medical personnel **Sex differences in Cardiac Diseases** Niti R. Aggarwal, Malissa J. Wood, 2021-01-29

Significant biological differences exist between men and women that contribute to sex specific differences in cardiovascular disease CVD risk factors pathophysiology presentation response to therapy and prognosis It is essential for clinicians to be cognizant of these sex specific differences in order to reduce the disparity in diagnosis and management of cardiovascular diseases in both genders Sex Differences in Cardiac Disease provides a timely review of the contemporary data on these sex specific differences in pathophysiology clinical presentation diagnostic evaluation and management of cardiovascular diseases that fills a void for clinicians in practice and training With contributions from renowned experts in the field and guideline writers the text provides a state of the art review of each topic encompassing the full spectrum of CVD in men and women Sex specific guideline based recommendations are highlighted when available Tailored to meet the needs of the busy clinicians and researchers this text provides concise practical data to care for men and women at risk for or with CVD The book serves as an essential resource for researchers cardiologists obstetricians gynecologists internists family practitioners nurse practitioners and physician assistants and respective trainees who treat men and women with CVD Provides a comprehensive state of the art text written by internationally renowned experts in the field of CVD disease serving as an indispensable resource for clinicians and researchers Enables the reader to understand the sexual dimorphism in the pathophysiology diagnosis management and outcomes of the full spectrum of cardiovascular issues including ischemic heart disease valvular disorders arrhythmias and heart failure Provides a concise evidence based practical review of medical topics

with key points and eye catching visual infographics to meet the needs of the busy clinicians policy makers and researchers

Menopause for the MRCOG and Beyond Margaret Rees,2008-05 This book is a guide to perimenopausal medicine for Part 2 MRCOG examination candidates and all healthcare professionals Cardiac Electrophysiology Methods and Models
Daniel C. Sigg,Paul A. Iaizzo,Yong-Fu Xiao,Bin He,2010-09-11 Cardiovascular disease is the major cause of mortality and morbidity in the Western Hemisphere While significant progress has been made in treating a major sub category of cardiac disease arrhythmias significant unmet needs remain In particular every day thousands of patients die because of arrhythmias in the US alone and atrial fibrillation is the most common arrhythmia affecting millions of patients in the US alone at a given time Therefore there is a public need to continue to develop new and better therapies for arrhythmias Accordingly an ever increasing number of biomedical pharmaceutical and medical personnel is interested in studying various aspects of arrhythmias at a basic translational and applied level both in industry ie Biotech Pharmaceutical and device and in academia Not only has our overall understanding of molecular bases of disease dramatically increased but so has the number of available and emerging molecular pharmacological or device treatment based therapies This practical state of the art handbook will summarize and review key research methods and protocols their advantages and pitfalls with a focus on practical implementation and collaborative cross functional research The volume will include visual and easy to use graphics bulleted summaries boxed summary paragraphs links to reference websites equipment manufacturers where appropriate photographs of typical experimental setups and so forth to keep this book very focused on practical methods and implementation and yet provide enough theory that the principles are clearly understood and can be easily applied

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psychiatric mental health conditions and disorders while building on the fundamentals of nursing This essential text focuses on nursing roles settings trends body systems and their disorders and emergency and disaster management Unique to this edition is the gerontologic nursing unit which addresses physiologic and psychosocial changes in the older adult along with related disorders common to the elder patient the primary patient group population you ll encounter in practice It also emphasizes culturally competent care and holistic nursing while thoroughly covering all relevant NCLEX PN test plan content With updated guidelines on diabetes heart failure asthma COPD and cancer treatment protocols no other resource offers the breadth of topics at a level that is so perfectly tailored to the LPN LVN student UNIQUE Gerontologic nursing unit covers physiologic and psychosocial changes in the older adult along with related disorders common to the elder patient the primary patient group for whom LPNs provide care UNIQUE In depth pharmacology coverage includes the Pharmacology Tutorial covering drug classifications how drugs work and nursing responsibilities Pharmacology Capsules boxes providing medication information precautions for use interactions and side adverse effects and Pharmacology and Medications tables including classification use action side adverse effects and nursing interventions Nursing care plans reinforce the nursing process and focus on critical thinking Get Ready for the NCLEX PN Examination sections at the end of chapters include key points review questions and case studies that address the various NCLEX Client Needs categories Coordinated Care boxes highlight team approach to patient care helping you to prioritize tasks and assign them safely to assistive personnel Patient Teaching Plans provide bulleted lists of nursing instructions for patients stressing the role and responsibility of the LPN LVN to reinforce patient education Health Promotion Considerations boxes highlight timely wellness and disease prevention topics Cultural Considerations boxes discuss the importance of providing culturally competent care related to various clinical situations Put on Your Thinking Cap boxes allow you to pause and consider the practical implications of what you have just read Nutritional Considerations boxes are spotlighted at appropriate points throughout the text to emphasize the role that nutrition plays in disease and nursing care Complementary and Alternative Therapies focus on nontraditional therapies along with precautions and possible side effects Key terms with phonetic pronunciations help improve terminology and language skills of English as a Second Language ESL students and students with limited proficiency in English before they enter clinical practice **Association Medical Journal** ,1904 *Bibliography of Medical Reviews* ,1971

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