

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, Ipilimumab, Nivolumab

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 inhibitors drugs.

Case Report

A 78-year-old male, ex-smoker, who had a history of ischemic heart disease 40 years ago, with previous angiotensin treatment, 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 1mg/kg every 2 weeks associated to

ipilimumab 3 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 infiltration.

Within the first hours the patient presented abrupt 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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