Kaposi Sarcoma and Lung Transplant: Two Case Reports

**Sarcoma de Kaposi y trasplante pulmonar: dos casos clínicos**

**Dear Editor,**

Solid organ transplant recipients have an increased risk of developing malignancies, particularly lung transplant recipients, being one of the leading causes of morbidity and mortality.1,2 Certain viral infections are related with the development of tumours, both in immunocompetent and immunosuppressed patients.1,3 In the latter, the permanent state of immunosuppression, makes them more susceptible to new infections or reactivations1,3 such as by human herpesvirus 8 (HHV-8), which is associated with Kaposi Sarcoma (KS) and can manifest in very different ways,4,5 as it will be described.

The first case refers to a 63 years old male patient, former smoker, submitted to bilateral pulmonary transplant (BPT) when he was 61 years old. Eleven months after transplant, on a routine visit, two small purpuric skin lesions in the patient’s chest were identified. He was referred to the Dermatology outpatient department and clinical vigilance was decided. Five months later, due to progression of the skin lesions, (Fig. 1a), he was submitted to cutaneous biopsy whose pathology revealed morphological features and HHV-8 positive cells, compatible with KS, and its digestive tract involvement was excluded. Meanwhile, he showed functional decline and the diagnosis of bronchiolitis obliterans was made, leading to changes in his immunosuppression from mycophenolate mofetil 1250 mg bid to everolimus 0.5 mg bid. Afterwards, he presented clinical worsening with dyspnea, bilateral pulmonary infiltrates and respiratory failure without response to non-invasive ventilation, all portrayed as a possible pulmonary involvement by KS, associated with transplant rejection (Fig. 1b). The patient died two days after these symptoms began, without having started specific therapy for KS.

The second case describes a 35 years old patient with bronchiectasis of unknown aetiology, submitted to BPT at the age of 30. Regarding post-transplant complications, the authors emphasise acute rejection with progression to bronchiolitis obliterans with functional stability without respiratory failure. He began immunosuppression with everolimus 0.5 mg bid and tacrolimus 4.5 mg bid. Fifty months after transplant, he was hospitalized for both prostatitis and acute cholecystitis. During that period the patient presented poor response to neoadjuvant chemotherapy.4,6 Some studies showed older age to be associated with poorer outcome but other studies showed no association between age and survival.9 Our patient presented several adverse prognostic factors, as metastatic disease and large tumor volume, and we believe that his advanced age had an important contribution to the rapidly fatal evolution after the diagnosis. Early clinical suspicion is crucial, and Askin’s tumor must be kept in mind in the differential diagnosis of small round cell malignant tumors of the thorax, even in elderly.

**Bibliografía**


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severe anaemia (haemoglobin 6.8 g/dL) and he underwent endoscopic study which revealed multiple, vascular, round and elevated lesions dispersed in the stomach, suggestive of KS (Fig. 1c). The histological examination confirmed this suspicion after the identification of positive cells to HHV-8 and its serology was negative. Few days later, the patient died after the onset intra-abdominal sepsis.

KS in lung transplant patients has been rarely described in literature, contrary to other solid organ recipients.\textsuperscript{2,4} Different clinical expressions and severity can occur, but usually they are aggressive, commonly involve skin and visceral organs\textsuperscript{1,4} and time from transplantation to diagnosis can vary widely (3–124 months).\textsuperscript{3} KS related to immunosuppression usually disappears with mTOR inhibitors\textsuperscript{5} or with modification, reduction or cessation of immunosuppressive drugs, which in lung transplant patients is not recommendable due to loss of the graft,\textsuperscript{1} making their therapeutic approach a challenge. Unfortunately, clinical deterioration in both patients did not allow us to start specific therapy for KS.

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**Conflict of Interests**

The authors declare that there is no conflict of interests directly or indirectly related to the contents of the manuscript.

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**Síndrome de Richter con extensa afectación extranodal pleural aislada: importancia de la PET/TC**

**Richter Syndrome With Extensive Isolated Pleural Extranodal Involvement: The Importance of PET/CT Imaging**

**Estimado Director:**

El síndrome de Richter (SR) consiste en una transformación de una leucemia linfática crónica (LLC) en un agresivo linfoma difuso de células B grandes (LDCBG), una variedad de linfoma no Hodgkin de rápido crecimiento y mal pronóstico. El SR complica la evolución de un 5-10% de pacientes con LLC y clínicamente suele manifestarse en forma de adenopatías, esplenomegalia y aparición o empeoramiento de síntomas «B» ( fiebre, sudoración nocturna, pérdida de peso)\textsuperscript{1}. La tomografía por emisión de positrones/tomografía computarizada (PET/TC) es una potente herramienta diagnóstica híbrida muy útil en el estudio de los pacientes con SR, al facilitar la planificación y la obtención con otras técnicas de muestras histológicas de las lesiones que presentan mayor metabolismo\textsuperscript{2,3}.

Presentamos el caso de una mujer de 74 años diagnosticada de una LLC en 2009 que consultó en Urgencias de nuestro hospital por disnea progresiva, molestias torácicas y febrícula de dos semanas de evolución. La radiografía de tórax reveló un abundante derrame pleural derecho que condicionaba un desplazamiento del mediastino hacia el lado contratralateral y una atelectasia secun-