histopathological examination revealed a small-round cell tumor (Fig. 1C). The immunohistochemistry study was positive to CD99 (Fig. 1D), synaptophysin and vimentine, favoring the diagnosis of Askin’s tumor.

The patient had a hospital-acquired respiratory infection with associated respiratory failure and died, without starting any anti-neoplastic therapy.

Askin’s tumors are rare tumors that develops in the soft tissue of the thoracic wall and mainly occurs in children, adolescents and young Caucasian adults. Reported cases in patients over 60 years are extremely rare.1

Our patient presented some clinical signs and symptoms commonly seen in Askin’s tumors, as dyspnea, cough, chest pain, pleural effusion, fever and superficial lymph nodes. Fewer clinical findings reported.2,4 Typical radiographic findings include a large chest mass that can be associated with pleural effusion. Rib destruction is frequent. Pulmonary parenchymal involvement, hilar and mediastinal adenopathies are other associated findings.2,5

If Askin’s tumor is suspected, diagnostic confirmation is obtained by histological and immunohistochemical analysis, as was performed in our case. Histological features include small round malignant cells that contain scant cytoplasm. Like the other Ewing’s family tumors, Askin’s tumor may express neural markers as CD99, neuron-specific enolase, vimentin and Leu7 (CD57). Tumor cells may also be positive for synaptophysin. Diagnostic confirmation can be alternatively made by detection of the typical cytogenetic mutation, a reciprocal translocation between chromosomes 11 and 22 (t[11;22](q12;q12)).3

The ideal treatment of Askin’s tumor should be multimodal, and included a combination of neoadjuvant chemotherapy, radical surgical resection and adjuvant chemotherapy and radiotherapy.3,4 However, metastases are frequently seen at the time of diagnosis, making impossible the optimal treatment. Local recurrences after treatment are also frequently seen, reason why Askin’s tumor is generally associated with poor prognosis and short survival.

Adverse prognostic factors reported include metastatic disease at diagnosis, larger tumor volume, presence of pleural effusion and poor response to neoadjuvant chemotherapy.5,6 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.

References

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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 tumors, both in immunocompetent and immunosuppressed patients.1,5 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,1,5 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 dyspnoea, 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 male patient with bronchiectasis of unknown aetiology, submitted to BPT at the age of 30. Regarding post-transplant complications, the authors emphasize acute rejection with progression to bronchiolitis obliterans with functional stability without respiratory failure. He begun 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

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patient presented 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. Different clinical expressions and severity can occur, but usually they are aggressive, commonly involve skin and visceral organs and time from transplantation to diagnosis can vary widely (3—124 months). KS related to immunosuppression usually disappears with mTOR inhibitors or with modification, reduction or cessation of immunosuppressive drugs, which in lung transplant patients is not recommendable due to loss of the graft, 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

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References


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

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

To the Editor,

Richter syndrome (RS) consists of the transformation of chronic lymphocytic leukemia (CLL) to diffuse large B-cell lymphoma (DLBCL), a rapidly growing variety of non-Hodgkin’s lymphoma with poor prognosis. The disease course in 5%–10% of patients with CLL is complicated by RS, which generally presents clinically in the form of lymphadenopathies, splenomegaly, and worsening B symptoms (fever, night sweats, weight loss). Positron emission tomography–computed tomography (PET–CT) is a powerful hybrid diagnostic tool that is useful in patients with RS because it helps plan and obtain histological biopsies of lesions with greater metabolism using other techniques.

We report the case of a 74-year-old woman diagnosed with CLL in 2009, who attended the emergency department of our hospital with a 2-week history of progressive dyspnea, chest discomfort and low-grade fever. Chest radiograph revealed a large right pleural effusion causing mediastinal shift to the contralat-