Acute onset of Lupus associated Pancreatitis Mimicking Pancreatic Cancer

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Introduction

A 42-years old caucasian woman was admitted to our hospital because of jaundice developed some days earlier. Her history was positive for mixed connective tissue disease and autoimmune thrombocytopenia treated for several months with oral corticosteroids. At admission, a contrast-enhanced CT scan of the abdomen revealed an enlargement of the head of the pancreas, marked dilation of the main bile duct and moderately dilated intrahepatic bile ducts (figure 1). An endoscopic ultrasound guided fine needle aspiration (FNA) was performed; histology was negative for neoplastic cells and immunohistochemistry with positive staining for cytokeratin (CK)19, but negative staining for Insulin-like growth factor II mRNA-binding protein (IMP)-3 together with a low (MIB)-1 labelling index (<2%) was consistent with an inflammatory process. Endoscopic retrograde cholangiopancreatography (ERCP) for biliary stenting was complicated by hemoperitoneum and the patient was transferred to the surgery unit and, subsequently, because of hemodynamic instability to the ICU. During recovery and resolution of jaundice a spontaneous free colonic perforation occurred and the patient underwent left-sided colectomy together with an ileostomy in the right hemi-abdomen. Histological evaluation of the surgical specimen was consistent with CMV infection. The patient slowly recovered and was discharged after three months. She was readmitted 1 month later because of malnutrition and dehydration; in this occasion a contrast-enhanced ultrasound (US) evaluation of the pancreas revealed no focal lesion and a globally moderately dilated main pancreatic duct consistent with chronic pancreatitis (figure 2). At this moment, repeated determination of blood glucose revealed diabetes mellitus that was treated with Insulin.

Several investigations including serum IgG4 and mutations of the cystic fibrosis transmembrane conductance regulator gene were negative. Autoimmunity testing revealed positivity for antinuclear antibodies (ANA) (1:160) and anti smooth muscle antibodies (ASMA) (1:80). Complement levels were low (C3: 76 mg/dl [normal levels: 90-180 mg/dl]; C4: 9 mg/dl [normal levels:10-40 mg/dl]) and microscopic analysis of urines was positive for hyaline cylinders with

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including rituximab are under evaluation.

Thrombocytopenia. Long-term strategies with non-steroid regimens to corticosteroids. This therapy was employed in our patient controlling the criteria of the American College of Rheumatology [10].

These new SLICC criteria were found to have a greater sensitivity (94%) and equal specificity (92%) compared with the former revised criterion (in our patient: ANA positivity and low C3 and C4 levels).

Systemic Lupus International Collaboration Clinics (SLICC) criteria made after the diagnosis of pancreatitis and was based on the recently re-evaluated criteria of the American College of Rheumatology (ACR), the revised criteria for the classification of systemic lupus erythematosus. Arthritis Rheum 64: 2677-2686.

In conclusion, we reported on a patient with autoimmune pathologies presenting with obstructive jaundice and an enlarged pancreatic head mimicking pancreatic cancer. After excluding pancreatic carcinoma, diagnosis converged on lupus-associated chronic pancreatitis.

Chronic pancreatitis associated with systemic lupus erythematosus (SLE) is limited to a few case reports [4-7] and represents a rare finding. In an analysis on 136 patients with SLE, 10 patients with clinical or subclinical pancreatitis were identified [8]. On logistic regression among the associated variables, thrombocytopenia as in our case, was identified. In the present case the diagnosis of SLE was made after the diagnosis of pancreatitis and was based on the recently revised criteria of the American College of Rheumatology (ACR), the Systemic Lupus International Collaboration Clinics (SLICC) criteria [9]. Diagnosis is based on the fulfillment of at least four criteria (out of seventeen) with at least one clinical criterion (in our patient: thrombocytopenia, hyaline cylinders in urines) and one immunologic criterion (in our patient: ANA positivity and low C3 and C4 levels).

Therapy of SLE is based on immunosuppressive drugs, first of all corticosteroids. This therapy was employed in our patient controlling thrombocytopenia. Long-term strategies with non-steroid regimens including rituximab are under evaluation.

Conclusion

This is to the best of our knowledge the first description of a lupus-associated chronic pancreatitis mimicking pancreatic cancer. The modality of presentation with obstructive jaundice is frequently reported in type 1 autoimmune pancreatitis. Pancreatic ductal cancer was ruled out by means of the recently re-evaluated immunohistochemical markers for pancreatic neoplasia [1,2] and autoimmune type 1 pancreatitis was excluded because of the absence of high serum IgG4 levels [3].

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Discussion

In conclusion, we reported on a patient with autoimmune pathologies presenting with obstructive jaundice and an enlarged pancreatic head mimicking pancreatic cancer. After excluding pancreatic carcinoma, diagnosis converged on lupus-associated chronic pancreatitis.

References


Figure 2: Ultrasound evaluation of the patient’s pancreas 8 months after clinical onset of disease before administration of i.v. contrast.