

Acute Pancreatitis: A Rare Presentation of Systemic Lupus Erythematosus

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Abstract

Systemic lupus erythematosus (SLE) is a systemic autoimmune disease with diverse clinical manifestations including gastrointestinal tract (GIT) afflictions. Lupus pancreatitis is more common in females and third decade of life with an incidence ranging from 0.7% to 4%. We here present a case of a 30-year-old female who presented with acute pancreatitis and after exclusion of all possible common etiology of pancreatitis, the evaluation revealed SLE with renal, skin and joint involvement. The patient showed marked improvement on immunosuppression with a resolution of all symptoms and proteinuria emphasizing the need for prompt diagnosis and management.

Keywords: SLE; Acute pancreatitis

Introduction

Systemic lupus erythematosus (SLE) is a systemic autoimmune inflammatory disease with diverse clinical manifestations. Gastrointestinal tract (GIT) afflictions may be due to the disease itself, adverse reactions of medications or by opportunistic infections. GIT involvement in SLE has various forms like mesenteric vasculitis (0.2-9.7%), protein-losing gastroenteropathy (1.9-3.2%), intestinal pseudo-obstruction which is rare, and lupus pancreatitis (0.7-4%) [1, 2]. Lupus pancreatitis is more common in females and third decade of life.

Case Report

A 30-year-old female resident of Punjab was admitted with

complaints of arthralgia since 1 month and pain abdomen since 2 days. Arthralgias were intermittent, asymmetrical involving hands, wrists, and knees. She had epigastric pain which was sudden onset, rapidly progressive, radiating to back associated with abdominal distension and vomiting. The patient also had a history of photosensitivity and recurrent oral ulcers since 1 year.

On general physical examination, she had pallor and malar rash involving nasal bridge sparing the nasolabial folds. Her vitals were stable. There was no swelling, erythema, and deformity of joints. The abdomen was distended with the fullness of flanks and mild tenderness in the epigastric and periumbilical area and no appreciable organomegaly. Shifting dullness was present. Respiratory, cardiovascular and central nervous system examinations were unremarkable. Hematological investigations revealed microcytic, hypochromic anemia with hemoglobin of 8.7 g%. Kidney and liver function tests were essentially normal. Serum amylase (221 U/L; normal < 85 U/L) and lipase (349 U/L; normal < 60 U/L) were raised with a bulky and heterogenous echotexture of the pancreas with ascites on sonogram establishing a diagnosis of acute pancreatitis. She had no history of alcoholism, her sonography examination did not reveal any gall bladder stones and common bile duct was normal. Serum lipid profile, calcium and triglycerides levels were normal. Her urine examination revealed albuminuria with a 24-h protein of 2.5 g. Anti-nuclear antibodies (ANA) and anti-dsDNA antibodies were positive, with low C3 levels supporting a diagnosis of SLE, also serum proteins (5.4 g%; normal 6.5-8.5 g%) were decreased with an inverse albumin: globulin ratio (0.8). Ascitic fluid examination showed high protein (4.7 g%) and low serum-ascites albumin gradient (SAAG < 1.1) with raised amylase revealing pancreatic nature of ascites. Contrast CT scan of the abdomen was suggestive of acute pancreatitis with an acute pancreatic fluid collection of 4.5 × 2.1 cm size in the tail region of the pancreas and peripancreatic fat stranding (Fig. 1). Magnetic resonance cholangiopancreatography (MRCP) ruled out the possibility of congenital anomalies of the pancreas (Fig. 2). The patient improved with intravenous fluids and supportive management for pancreatitis. Later, her renal biopsy revealed evidence of mild mesangioproliferative glomerulonephritis suggestive of class II lupus nephritis. Subsequently, she was started on prednisolone 1 mg/kg/day dose with gradual tapering and ramipril 5 mg/day. Her ascites and abdominal pain improved with no recurrence and proteinuria

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Consent

Consent was obtained.

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