ARTICLE IN PRESS

The Egyptian Rheumatologist xxx (xxxx) xxx-xxx

Contents lists available at ScienceDirect

The Egyptian Rheumatologist

journal homepage: www.elsevier.com/locate/erhe



Case reports

An unusual case of intestinal pseudo-obstruction presenting in an adolescent with juvenile-onset systemic lupus erythematosus: A diagnostic challenge

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ARTICLE INFO

Keywords: Systemic lupus erythematosus Intestinal pseudo-obstruction Digestive manifestations Case report

ABSTRACT

Introduction: Systemic lupus erythematosus (SLE) is an autoimmune disease with multiple systemic manifestations. The disease itself typically causes only 2–30% of SLE-associated gastrointestinal conditions. Case report: We present the case of a 16-year-old male with history of SLE diagnosed 5 months prior to admission. Patient was non-compliant to medical treatment. He presented with 20 days of cough, mucopurulent and blood-tinged sputum, progressive shortness-of-breath and abdominal bloating. Patient was found to have multiple organ dysfunction due to an active lupus flare that developed during hospitalization, and required treatment with high doses of corticosteroids and close observation in an intensive care unit. Despite initial improvement of symptoms, he continued with abdominal pain, bloating, abolished bowel sounds and poor food intake. An abdominal X-ray showed signs of intestinal obstruction, establishing the diagnosis of intestinal pseudo-obstruction (IpsO). Patient then displayed a marked improvement of his gastrointestinal condition following treatment with 400 mg/kg/day of intravenous immunoglobulin (IVIgG) for 5 days.

Conclusion: Intestinal pseudo-obstruction is an unusual clinical manifestation of SLE and may represent a diagnostic challenge. We underscore the importance of a prompt and precise recognition of this condition, which is likely to have a positive impact on clinical outcomes. IpsO is caused by a non-mechanical obstructive bowel injury. Evidence points towards to the use of IgG and steroid for five days as the mainstay of therapy for patients with IpsO.

1. Introduction

Systemic Lupus Erythematosus (SLE) is an inflammatory autoimmune disease with multiple systemic manifestations [1]. Gastro-intestinal involvement has been similarly reported in adult and juvenile-onset SLE patients [2]. Among the associated gastrointestinal complaints, only 2–30% are typical of the disease, the remainders are caused by adverse reactions to medications. In general, 50% of patients with SLE suffer from anorexia, nausea, vomiting, diarrhea, esophageal dysmotility, protein-losing enteropathy and mesenteric vasculitis as well as intestinal pseudo-obstruction (IpsO) in up to 23% [3] and ascitis in 35% [4]. The latter is known to be the rarest manifestation of SLE and is more frequently encountered among 30-year-old female patients [5–10]. This article describes a case of intestinal pseudo-obstruction in

a young male suffering from a relapse of SLE disease activity.

2. Case report

We present the case of a 16-year-old male from a rural area in the south of Huila, Colombia, diagnosed with SLE five months prior to admission at a specialist outpatient clinic due to polyarthritis, malar rash and positive antinuclear antibodies (ANAs) and anti-double stranded deoxyribonucleic acid (ds-DNA) antibodies [11]. The patient presented with 20 days of coughing with mucopurulent and blood tinged sputum. Patient was discharged with medication for symptomatic relief, however due to the persistence of his symptoms, functional respiratory decline and abdominal distension, the patient returned to the local hospital where bilateral pleural effusions were found on a

Peer review under responsibility of Egyptian Society of Rheumatic Diseases.

http://dx.doi.org/10.1016/j.ejr.2017.10.003

Received 12 October 2017; Accepted 24 October 2017

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Table 1
Immunological profile and other laboratory test findings in a male patient with intestinal pseudo-obstruction and systemic lupus erythematosus.

Finding	Initial labs.		Hospitalization				
	30/03	02/04	Day 1	Day 2	Day 8	Day 19	Day 50
Immunological profile							
Anti-dsDNA	1:640		1: 40				
homogeneous pattern	1:640						
ribosomal pattern	1:160						
Anti-phospholipids							
IgM		24/10					
IgG		42/10					
C3 mg/dL			11.3		10	19.5	
C4 mg/dL			< 5		6	4	
Anti-Sm				78.03			
Anti-RNP				68.44			
SS-A (anti-La)				1.67			
SS-B (anti-Ro)				6.75			
Renal function							
Creatinine (mg/dL)	0.8		2.17	3	2.93	1.39	0.96
BUN (mg/dL)			35.3	42.2	72.77	33.18	

Ds-DNA: anti-double stranded deoxyribonucleic acid; Ig: immunoglobulins; Anti-Sm: anti-Smith; C: complement; RNP: ribonucleoprotein; SS: Sjögren's syndrome, BUN: blood urea nitrogen

chest X-ray. A bilateral tube thoracostomy was performed, removing 1800 mL of serohematic fluid. During the course of his hospitalization the patient experienced a severe anaemic syndrome, requiring a blood transfusion and referral to a higher-level facility. On admission he was afebrile with tachychardia, tachypnea, signs of dehydration and generalized mucocutaneous pallor. Besides heart rate, cardiac examination was unremarkable. Respiratory sounds were diminished. Chest tubes contained blood clots. Abdomen was soft, distended, with a positive fluid wave test indicating ascites. No guarding or rebound was present and no collateral circulation was found. The rest of the physical examination was within normal limits. The case report conforms to the 1995 Helsinki ethical declaration. Informed consent was obtained from the patient.

Laboratory test results (Table 1) were indicative of an active lupus flare and systemic management began with immunomodulators and steroids. In the following days the patient experienced diarrhoea and his temperature peaked at $102.2\,^{\circ}$ F. A lung infection was considered. The patient was transferred to the high dependency unit where an X-ray and a computed tomography (CT) scan of the abdomen showed signs of

intestinal obstruction (Figs. 1 and 2). Despite initial improvement of symptoms, he continued with abdominal pain, bloating, abolished bowel sounds and poor food intake; general surgeons considered the patient to have an acute abdomen that required surgical management once lung function was stabilized.

On the patient's eighth day of hospitalization, pleurectomy/decortication surgery was intended for patient's right lung due to pleural effusion. During anaesthetic induction the patient suffered cardiac arrest, was resuscitated and the blood clots were removed from his thorax. The surgery was cancelled and the patient was transferred to the intensive care unit in isolation where, due to his symptoms, medical history and imaging studies, was considered to be suffering from intestinal pseudo-obstruction due to SLE. The patient displayed marked improvement of his abdominal condition following treatment with 400 mg/kg/day of intravenous immunoglobulin (IVIgG) for 5 days and his SLE went into clinical remission as well.

3. Discussion

Intestinal pseudo-obstruction is a rare clinical syndrome of SLE and may represent a diagnostic challenge in most clinical settings. We underscore the importance of a prompt and precise recognition of this condition, which are likely to have a positive impact on morbidity and mortality outcomes [7]. IpsO presents typically as an initial manifestation of SLE or may arise as a complication of the disease or medications within the first few months after its diagnosis. It is characterised by being a non-mechanical obstructive lesion of the intestine, which is accompanied by diarrhoea, constipation, vomiting, abdominal pain, bloating, absence of bowel sounds and weight loss [7,9,12,13]. The underlying pathophysiology is not fully well understood, however, a few small cohort studies have suggested that the alteration is caused by mesenteric vasculitis which causes damage to the smooth muscle of the intestine, leading to hypomotility [7,9,14]. Other studies have proposed that, similar to glomerular compromise, intestinal damage may be caused by the deposition of immune complexes of anti-ds-DNA antibodies and C1q among others, which have receptors in both locations and may cause local inflammation, eventually leading to formation of antibodies against the smooth muscle and tissue destruction. However, this remains a hypothesis and has not yet been verified [1,14,15].

Diagnosis is based on abnormal findings on abdominal x-rays and/ or CT scans, such as: a grossly dilated bowel; abnormal bowel gas patterns; thickening of the intestinal walls, signs of peritonitis, pyelocaliectasis and ureterohydronephrosis (present in up to 60% of cases) are observed [9,16]. Systemic disease activity is usually present, so



Fig. 1. Abdominal X-ray in a male patient with intestinal pseudo-obstruction and systemic lupus erythematosus. Gaseous distension of the bowel and hydro-aerial levels can

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