

Introduction

- Adult Onset Still's disease (AOSD) has an estimated incident 0.16-0.4 per 100,000 people¹.
- Hence, liver dysfunction due to AOSD is a rare entity with a spectrum from hepatomegaly and elevated transaminases fulminant hepatic failure.
- Delayed diagnosis can lead to life-threatening liver failure. report a case of liver dysfunction due to AOSD diagnosed extensive evaluation.

Case Description

- A 27-year-old African-American woman presented to the emergency department with 2 weeks of fever, chills, myalgia non-bloody watery diarrhea, shortness of breath, and pleurit chest pain, which started after a recent trip to Haiti.
- On exam, she was febrile (103 F), tachycardic, hypoxic, with tender bilateral axillary and inguinal lymphadenopathy.
- Treatment with antibiotics, methylprednisolone, and antitubercular therapy (RIPE) was initiated. She required intubat and vasopressor support due to worsened respiratory distres
- Her liver enzymes were noted to be trending up after admiss RIPE therapy was modified but transaminases continued to r Extensive infectious and rheumatological workup was negati Work-up for chronic liver disease was negative as well (table
- She was immune to hepatitis A(IgM negative, IgG positive), immune to hepatitis B(HbsAg non-reactive, HbsAb reactive, HbcAb non-reactive) and hepatitis C antibody was negative.

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Liver Function Abnormalities in Adult Onset Still's Disease : A Case Report

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Table	1. Laboratory Investiga	tions during Hospitaliza	ation
TEST	ON ADMISSION	PEAK VALUE	ON DISCHARGE
WBC	10,870	33,710	8210
AST	91	625	40
ALT	19	294	82
ALP	48	1460	554
T. BIL	0.6	12.6	1.1
D. BIL	-	8.6	0.6
GGT	-	1136	-
CRP	120	168	<5
ESR	43	90	19
FERRITIN	>40,000	>40,000	518
HEUMATOID FACTOR	12	—	-
ANA	NEGATIVE	—	-
HbeAb IgM	NON REACTIVE	—	-
HbeAb IgG	REACTIVE	-	-
HBV DNA	NOT DETECTED	-	-
PHA-1 ANTITRYPSIN	NORMAL	—	-
CERULOPLASMIN	NORMAL	-	-
NTI-MITOCHONDRIAL	NEGATIVE		-
ANTI-LKM	NEGATIVE	—	-
ANTI-SMA	NEGATIVE	_	-

References

1. Gerfaud-Valentin, Mathieu, Yvan Jamilloux, Jean Iwaz, and Pascal Sève. 2014. Adult-onset Still's disease, Autoimmunity Reviews, 13: 708-22.



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Case Description

sonogram with doppler and MRCP showed normal hepatobiliary natomy. Inguinal lymph node biopsy showed reactive hyperplastic atterns. A liver biopsy showed few nonspecific small lobular foci of otty inflammation, necrosis and ballooning degeneration of epatocytes.

ne patient was diagnosed with AOSD based on Yamaguchi criteria nce she met 3 major and 3 minor criteria.

ven lack of improvement with methylprednisolone, interleukininhibitor canakinumab was started. Inflammatory markers and ver enzymes improved significantly and she was discharged.

Discussion

OSD is a rare disease with nonspecific signs and symptoms. Liver nction abnormalities are the most common manifestation in

ver involvement can occur in the absence of other features of the sease and can delay diagnosis. Diagnosis is based on clinical

eatment is largely based on expert opinion since controlled trials e lacking. The most effective treatment is corticosteroids and ologic therapy.

nis case highlights the need for a high index of suspicion for AOSD hen abnormal liver enzymes are seen in the context of onspecific signs and symptoms.