

## Syphilis, the "great imitator", presenting as acute hepatitis.

Wright State University Boonshoft School of Medicine



- albumin of 2.0 g/dL.
- showed periportal edema consistent with hepatitis without any gallstones, masses, or common bile duct dilation.
- syphilis.
- normal levels of ALT, AST, ALP, and total bilirubin.



**Figure 1** - Maculopapular rash on hands, feet, back and scleral icterus

Ammar Ahmad, MD. Fadi Odish, MD. Sangeeta Agrawal, MD.



## **CASE PRESENTATION**

Patient was a 35-year-old male who presented to the hospital for jaundice and mild intermittent right upper quadrant abdominal pain. His medical history was only significant for alcohol abuse. His last drink was 4 weeks ago. He was sexually active with men. On exam, hepatomegaly, mild tenderness in the right upper quadrant, jaundice, and fine macular rash on both hands and feet were noted. Lab tests revealed an ALT of 965 U/L, AST of 404 U/L, ALP of 1056 U/L, total bilirubin of 9.5 mg/dL, direct bilirubin of 6.5 mg/dL, INR of 0.96, and

Right upper quadrant ultrasound showed an enlarged liver but was negative for gallstones and hepatic vein thrombosis. MRI of the abdomen

HIV viral load and Hepatitis C viral RNA were undetectable. Hepatitis A & B serologies were indicative of prior immunization. Hepatitis E serology and SARS-CoV-2 PCR were negative. Ferritin level was 177 ng/mL. Alpha-1-antitrypsin levels and ceruloplasmin levels were normal. Anti-Smooth muscle antibody titers were slightly elevated at 1:80 (Normal < 1:20). Anti-Mitochondrial antibody levels were also slightly elevated at 47.9 units (Normal < 25 units). RPR titer was 1:32 and fluorescent treponemal antibody test was reactive which confirmed the diagnosis of

Liver biopsy was then performed which showed presence of mixed inflammatory cells without any granulomas which is consistent with other cases of syphilitic hepatitis. Immunohistochemical stain was negative for treponemes. Patient was treated with penicillin and did have Jarisch-Herxheimer reaction. ALT, AST, ALP, and total bilirubin down trended after treatment. Repeat tests drawn exactly 1 month post treatment showed

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