

Albert Einstein College of Medicine OF YESHIVA UNIVERSITY

Science at the heart of medicine

## LEARNING OBJECTIVES

- Leptospirosis is one of the most prevalent zoonotic diseases, with variable gastrointestinal and hepatic manifestations
- Leptospirosis primarily affects tropical areas, yet also observed in urban areas affected by a flood or a hurricane

## CASE PRESENTATION

A 63 year-old man with no significant medical history was evaluated for muscles pain, fatigue, and diarrhea of 3 days duration

### Findings

- Fever up to 102 F
- Conjunctival icterus
- WBC- 18 k/uL, HGB- 7.5 g/dL, PLT- 40 k/uL
- Creatinine- 5 mg/dL, BUN -85 mg/dL, INR- 1.5
- AST-96 U/L, ALT-113 U/L
- ALP- 192 U/L, TB-39.2 mg/dL (D- 23.6 mg/dL)
- Negative evaluation for common obstructive, infiltrative, infectious and autoimmune liver disease
- Unremarkable MRCP and US abdomen

### **Further information**

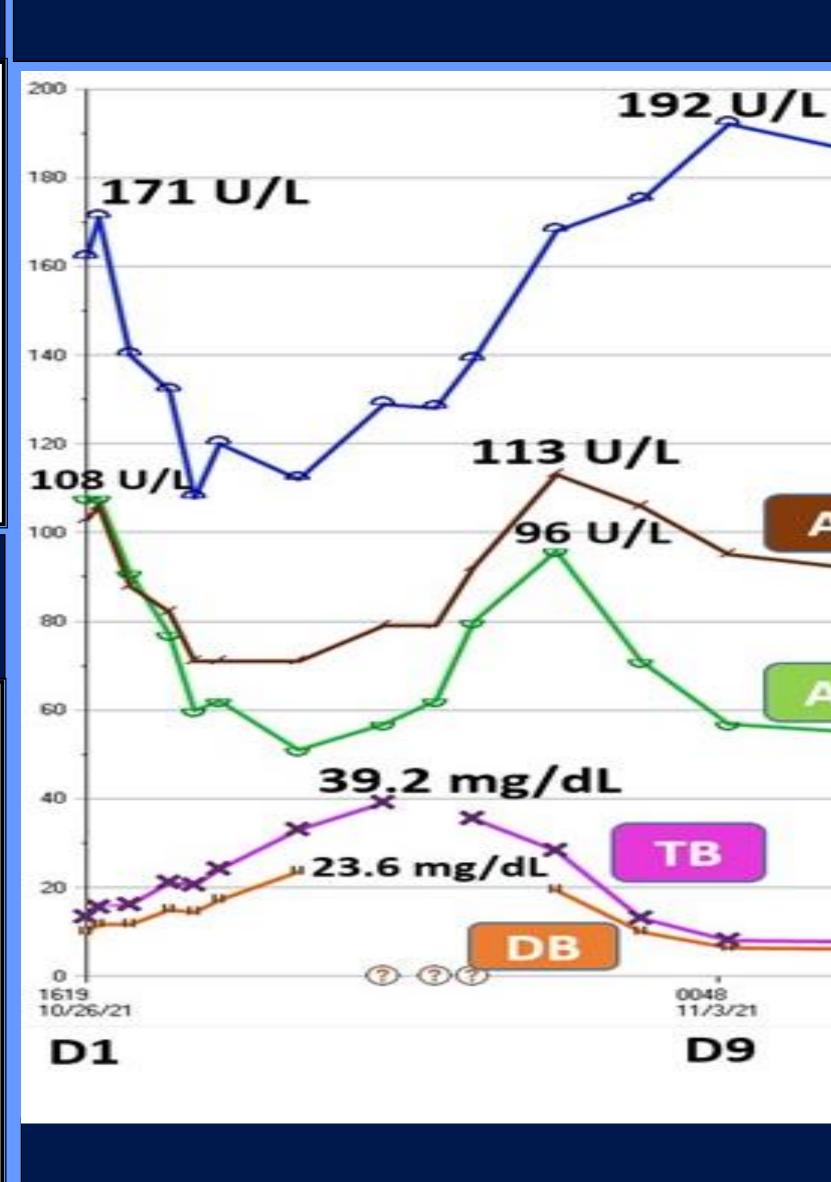
- Negative parasite blood smear and Leptospira IgM
- The patient's basement was recently flooded by a hurricane

### **Treatment provided:**

- Empiric Ceftriaxone, despite negative Leptospira studies
- Resolution of symptoms and lab abnormalities
- Follow-up visit at 4 weeks with positive IgM antibodies
- for Leptospira

# The (Icteric) Eye of The Storm A Case of Weil's Syndrome

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Causative agent: A Gram

- **Fransmitted** to humans vi skin wounds or after drin wading in water contamir infected rodents
- Mostly in <u>tropical</u> areas, affected by floods or hurr
- Dx: Blood & urine cultur
- Tx: Penicillin, 3rd genera Doxycycline, if administe

Clinician should keep high clinical suspicion for prompt diagnosis of leptospirosis in urban areas affected by floods, and consider empiric treatment

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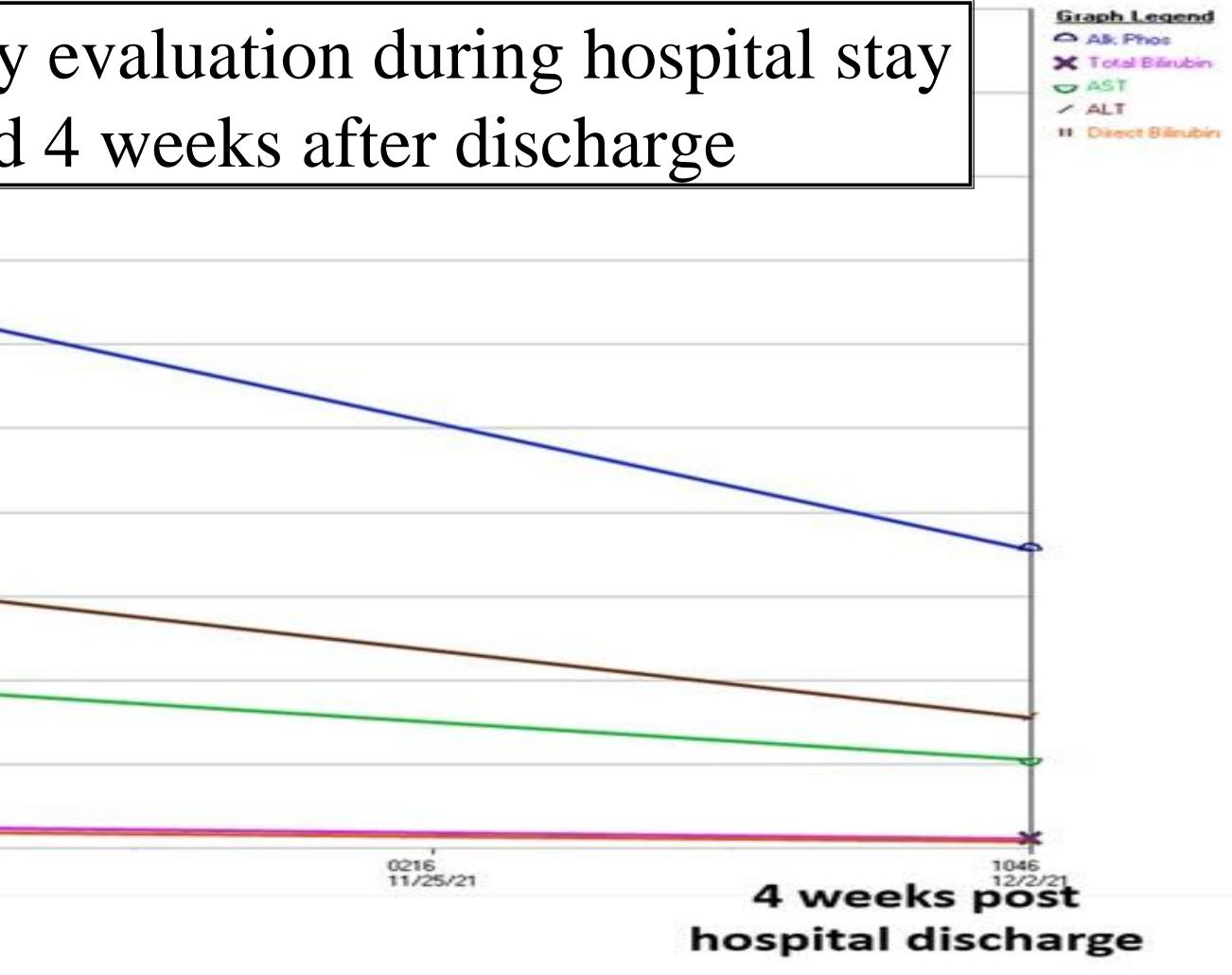
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CONCLUSIONS						
ation Cephalosporin and tered early	•	Renal and live				
res, anti Leptospira IgM		(mostly direct				
yet also found in urban areas ricane		<u>10% of ca</u> Phase 1: jaune Phase 2: fever				
via mucous membranes, open hking, eating, swimming, or nated by stool or urine of	•	<u>90% of ca</u> Phase 1: viral transient impr Phase 2: myal moderately in				
n-negative spirochete		Clinical mani				

## Montefiore THE UNIVERSITY HOSPITAL

**Division of Gastroenterology Department of Medicine** 

GS



ifestations:

ases: anicteric disease

1-like illness, conjunctival suppuration >> provement >>

lgia, abdominal pain, hepatomegaly, ncreased TB, ALT, AST

ases: Weil's syndrome ndice

er, profound jaundice, severely elevated TB ct), ALT, AST

ver involvement can be fatal