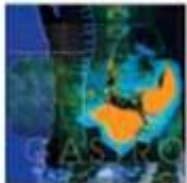


# New World Hepatitis

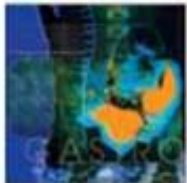


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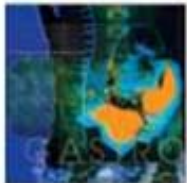
# Vignette

- 60 Y.O male
- No medical history
- Low grade fever, night sweats, weight loss for 3 months
- Family history of gastric cancer



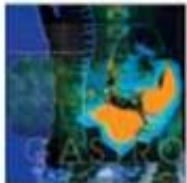
# Lab

- Hb 12.6
- MCV 83
- WBC 5.4
- Plt 217
- CRP 20
- ESR 80
- ALT 70
- AST 60
- Alk Phos 380
- $\gamma$ GT 120
- T. Bilirubin 3.1
- Albumin 37
- Globulin 48
- INR 1



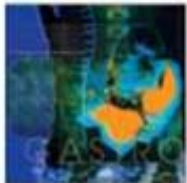
# Lab

- HAV, HBV, HCV neg
- CMV, EBV IgG pos
- Brucella, Chlamydia, Q-fever, Rickettsia neg
- HIV neg
- Metabolic work-up neg
- IgG high
- IgM high
- AMA pos
- ASCA pos
- ANA neg
- Free light chains high
- $\beta$ 2microglobulin high



# Imaging

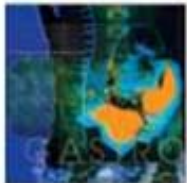
- Normal abdominal US
- Normal TEE
- CT – Axillary and inguinal lymphadenopathy



# What's Next?

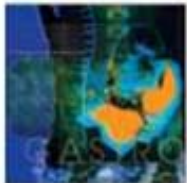
- Fever, weight loss, night sweats
- Progressive cholestasis
- AMA+, IgM ↑
- Light chains and b2mg
- CT scan
- Bone marrow Bx
- Liver Bx
- Endoscopies

**Empirical therapy?**



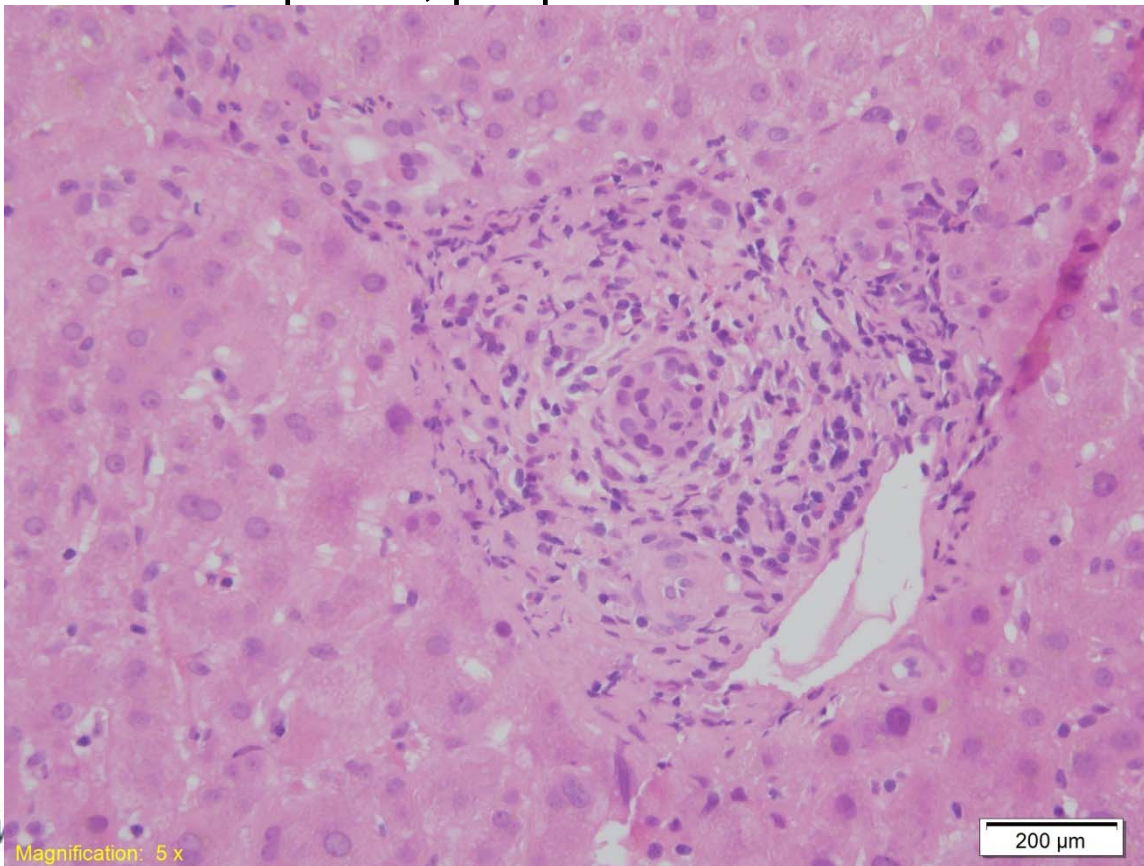
# Work-Up

- Normal BMB
- Normal endoscopies



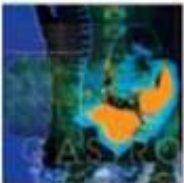
# Liver Biopsy

- **Chronic biliary tract disease –**  
Bile duct damage, neutrophilic cholangitis, plasma cells.  
Mild lobular hepatitis, periportal fibrosis



DD:

- PBC
- PSC
- Overlap
- DILI



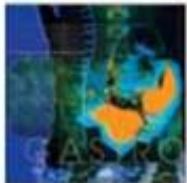


# What's Next?

- Fever, weight loss, night sweats
- Progressive cholestasis
- AMA, IgM
- Generalized lymphadenopathy
- Bx: PBC\PSC\Overlap

**Diagnosis Syndrome**

**UCDA Steroids**



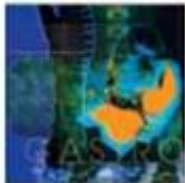
# Follow Up

- Started UCDA, refused steroids
- Developed a pruritic rash
- Treated with antihistamines and steroids with no improvement



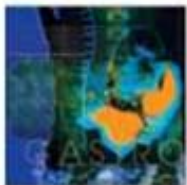
## Allergic reaction

- Stop UCDA
- Continue UCDA with antihistamines
- Skin Bx



# A Diagnostic Procedure Was Performed

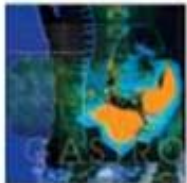
- VDRL 1:128
- TPHA reactive



# Syphilitic Hepatitis

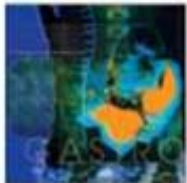
- Fever, rash, lymphadenopathy
- Cholestasis
- Positive VDRL and TPHA tests
- Forgot to mention his extracurricular activities

**Syphilis & PBC**



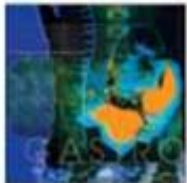
# Syphilitic Hepatitis

- Treated with Benzathine Penicillin 2.4M units IM once
- 6h following therapy - fever and chills
- Normal liver enzymes 3 months following treatment



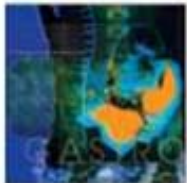
# Syphilitic Hepatitis

- Approximately 50 reported cases in Medline since the 1960s
- Largest series – 17 patients
- Asymptomatic  $\leftrightarrow$  Fulminant hepatitis
- Liver involvement in syphilis varies with the stage of the disease



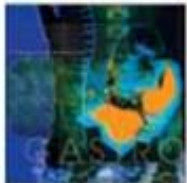
# Secondary Syphilis

- Fever, malaise, anorexia
- Pruritic rash involving palms and soles, Lymphadenopathy
- Disproportionately elevated alkaline phosphatase



# Secondary Syphilis

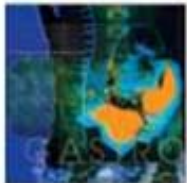
- Focal necrosis
  - Periportal
  - Centrilobular
- Pericholangiolar inflammation
  - Plasma cells                      Eosinophils
  - Lymphocytes                      Mast cells
  - PMN
- Inconsistent demonstration of spirochetes





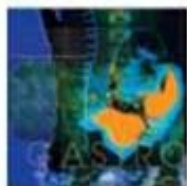
# Tertiary Syphilis

- Single or multiple gumma
- Liver dysfunction with portal hypertension
- Necrotic center with surrounding granulation tissue
- Gummas may resolve following ABx



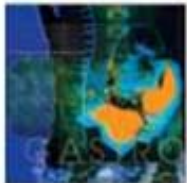
# Treatment

- **Early**  
Benzathine Penicillin 2.4 million units IM once
- **Late**  
Benzathine Penicillin 2.4 million units IM for three weeks
- **Response**
  - Normalization of liver enzymes
  - A fourfold reduction in titer



# Take Home Messages

- Fever, rash and cholestasis
- Check VDRL in patients with ELFT, regardless of what they told you
- Liver biopsy is not mandatory
- A great masquerader
  
- Check\|treat other STD



# Christopher Columbus

Although hailed for his discovery of the Americas, Christopher Columbus's reputation is tainted for introducing syphilis to Europe

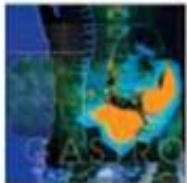


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# List of syphilis cases

Keys: S—suspected case; †—died of syphilis

- Endre Ady (1877–1919), Hungarian poet †
- Maurice Barrymore (1849–1905) actor †
- John Batman (1801–1839), founder of Melbourne †
- Charles Baudelaire (1821–1867), poet †
- Karen Blixen (1885–1962), writer<sup>[2]</sup>
- Manuel Maria Barbosa du Bocage (1765–1805), poet †
- Napoleon Bonaparte (1769–1821), emperor of France S
- Cesare Borgia (1475–1507), Duke of Valentinois and son of Pope Alexander VI
- António Botto (1897–1959), poet
- Camilo Castelo Branco (1825–1890), writer
- Beau Brummell (1778–1840), fashion arbiter
- Al Capone (1899–1947), gangster †
- Giacomo Casanova (1725–1798), adventurer and author
- Lord Randolph Churchill (1849–1895), British politician, father of British PM Winston Churchill
- Frederick Delius (1862–1934), composer †<sup>[3]</sup>
- Gaetano Donizetti (1797–1848), composer
- Gustave Flaubert (1821–1880), writer
- Paul Gauguin (1848–1903), painter †
- Theo van Gogh (1857–1891), art dealer †
- Vincent van Gogh (1853–1890), painter S
- Heinrich Heine (1797–1856), poet †
- Howard Hughes (1905–1976), businessman, aviator and film maker
- Ivan the Terrible (1530–1584), Czar of Russia
- Scott Joplin (1867/8–1917), composer †
- Kostas Karyotakis (1896–1928), Greek poet
- Eduard von Keyserling (1855–1918), writer †
- William Lobb (1809–1864), plant collector S
- Jean Lorrain (1855–1906), writer
- Édouard Manet (1832–1883), painter †
- Guy de Maupassant (1850–1893), writer †
- Friedrich Nietzsche (1844–1900), philosopher S
- Jack Pickford (1896–1933), actor †
- Harry Nelson Pillsbury (1872–1906), chess master †
- Martin Alonso Pinzon (1441–1493) captain of *Pinta* †
- Eugen Sandow (1867–1925), bodybuilder S<sup>[4][5]</sup>
- Franz Schubert (1797–1828), composer S
- Bedřich Smetana (1824–1884), composer †
- Henry Stuart, Lord Darnley (1545–1567), second husband of Mary Queen of Scots
- Leo Tolstoy (1828–1910), writer S<sup>[6]</sup>
- Henri de Toulouse-Lautrec (1864–1901), painter †
- Mikhail Vrubel (1856–1910), painter
- Oscar Wilde (1854–1900), writer S
- John Wilmot, 2nd Earl of Rochester (1647–1680), writer †
- Hugo Wolf (1860–1903), composer †
- Adolf Hitler (1889–1945), S<sup>[7]</sup>



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Thank You

