CC: Fever, HA, n/v, malaise

HPI: 22 year old man.

- 6 days of fever (up to 103F), HA, nausea, vomiting (non-bloody), malaise
- Assoc burning throat pain
- Took a total of ~24 tablets of 325mg Tylenol over 5 days for fever
- Other ROS negative
- s/p Pfizer Covid vaccine x2 (last dose 7/2021)
- Endorsed vaccination for HepA and HepB

PHYSICAL EXAM:

Tmax: 37.8C, BP: 114/70, HR: 79, RR: 18, SpO2: 100% on RA

General: In NAD, non-toxic appearing

HEENT: PERRL, EOMI, moist mucus membranes, non-icteric sclera, posterior

neck LAD, tonsils normal

CV: RRR, no murmurs/rubs/gallops

Pulm: CTAB, no wheezes/rhonchi/crackles

GI: Non-distended, soft, non-tender to palpation, no masses or

organomegaly

Neuro: AOx3, no asterixis, answering questions appropriately, moving all

extremities spontaneously against gravity

Skin: No rashes, no jaundice

PMH:

- none

SH:

- Lives in Germany. Studying abroad in the US for 1 semester
- Currently lives with roommates, 1 roommate tested positive for Covid 2 weeks ago
- Tobacco: denied
- EtOH: rarely (1-2 beers over 2 weeks)
- Drugs: denied
- Last sexually active 4 weeks ago, Monogamous relationship with girlfriend. No hx of STDs

сш٠

- Grandmother: RA

OUTPATIENT MEDS:

- none

LABS: 6.4 3.8 99 136 2.3 8.4 1.8 160 105 3.5 23 0.6 1410 1420 Diff: UA: Smudge cells present Bilirubin: positive 161 Lymphocytes: 67.5% Nitrites: negative HIV-1/HIV-2: neg Abs lymphocytes: 5.65 LE: negative Monospot: neg (个) 5 WBC/HPF EBV Ab: 38 (个) FBV PCR: Detected INR: 1.2 Utox: negative US Abd w/ duplex: TSH: 3.06 (nml) Acute hep panel: negative No evidence of CMV Ab and PCR: neg thrombus / Budd-Chiari Acetaminophen: <5 Liver: Homogenous, no ANA: <1:80 mass, no biliary Covid-19: negative x2 Anti-SM Ab: 7 (nml) dilatation Ceruloplasmin: 38 (nml)

PROBLEM REPRESENTATION:

Young man with no PMH, presenting with acute fevers, HA, n/v, malaise, and hepatitis, found to have...

INFECTIOUS MONONUCLEOSIS

CLINICAL MANIFESTATIONS

- Fever, malaise, pharyngitis, tonsillar exudates
- Lymphadenopathy (posterior cervical, posterior auricular)
- Splenomegaly
- Atypical lymphocytosis



CLINICAL MANIFESTATIONS

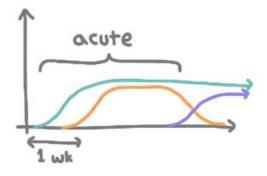
- Fever, malaise, pharyngitis, tonsillar exudates
- Lymphadenopathy (posterior cervical, posterior auricular)
- Splenomegaly
- Atypical lymphocytosis
- Rash
 - Reported s/p antibiotics (ampicillin or amoxicillin) and sometimes with NO antibiotic exposure
 - Could be due to transient virus-mediated immune response -> reversible, delayedtype hypersensitivity reaction



EBV TESTING



Anti-VCA antibody Lviral capsid antigen





Lnuclear antigen



COMPLICATIONS

- Peritonsillar abscess, airway obstruction
- Lymphoproliferative disorders
- Malignancies
 - Lymphomas, nasopharyngeal carcinoma



CC: Fever, HA, n/v, malaise

HPI: 22 year old man.

- 6 days of fever (up to 103F), HA, nausea, vomiting (non-bloody), malaise
- Assoc burning throat pain
- Took a total of ~24 tablets of 325mg Tylenol over 5 days for fever
- Other ROS negative
- s/p Pfizer Covid vaccine x2 (last dose 7/2021)
- Endorsed vaccination for HepA and HepB

PHYSICAL EXAM:

Tmax: 37.8C, BP: 114/70, HR: 79, RR: 18, SpO2: 100% on RA

General: In NAD, non-toxic appearing

HEENT: PERRL, EOMI, moist mucus membranes, non-icteric sclera, posterior

neck LAD, tonsils normal

CV: RRR, no murmurs/rubs/gallops

Pulm: CTAB, no wheezes/rhonchi/crackles

GI: Non-distended, soft, non-tender to palpation, no masses or

organomegaly

INR: 1.2

TSH: 3.06 (nml)

Acetaminophen: <5

Covid-19: negative x2

Neuro: AOx3, no asterixis, answering questions appropriately, moving all

extremities spontaneously against gravity

Skin: No rashes, no jaundice

PMH:

- none

SH:

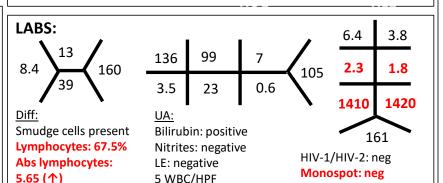
- Lives in Germany. Studying abroad in the US for 1 semester
- Currently lives with roommates, 1 roommate tested positive for Covid 2 weeks ago
- Tobacco: denied
- EtOH: rarely (1-2 beers over 2 weeks)
- Drugs: denied
- Last sexually active 4 weeks ago, Monogamous relationship with girlfriend. No hx of STDs

FH:

- Grandmother: RA

OUTPATIENT MEDS:

- none



Acute hep panel: negative

CMV Ab and PCR: neg

Anti-SM Ab: 7 (nml)

Ceruloplasmin: 38 (nml)

Utox: negative

ANA: <1:80

EBV Ab: 38 (个)

FBV PCR: Detected

US Abd w/ duplex:

thrombus / Budd-Chiari

Liver: Homogenous, no

No evidence of

mass, no biliary

dilatation

PROBLEM REPRESENTATION:

Young man with no PMH, presenting with acute fevers, HA, n/v, malaise, and hepatitis, found to have...

DIAGNOSIS: EBV / INFECTIOUS MONONUCLEOSIS

LEARNING POINTS:

- Clinical manifestations
 - Fever, pharyngitis, tonsillar exudates, malaise, lymphadenopathy, atypical lymphocytosis
 - Splenomegaly
 - · Can affect other organs e.g. hepatitis
- Diagnosis
 - Positive Heterophile / Monospot test
 - Can be false neg during early infection
 - EBV-specific antibodies (viral capsid Ag)
- Complications
 - Peritonsillar abscess, airway obstruction
 - Lymphoproliferative disorders
 - Malignancies
 - Lymphomas, nasopharyngeal carcinoma