

Chief Report

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Pennsylvania Hospital | UPHS

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59 y o male: CC

- Abdominal distension

Abdominal Distention

Solid

Common

- ↑ Adiposity
- Pregnancy

Rare

- Hepatomegaly
- Splenomegaly
- Malignancy

Liquid

Blood

Hemo-
peritoneum

Other

Ascites

Other

- Abdominal
Wall Weakness

Gas

- Ileus
- Obstruction

59yo male: Initial History

Abdominal distension Jaundice	Medical history: MDD HLD BPH
HPI: Symptoms progressed over 3 weeks Anorexia Abdominal pain Shortness of breath Diarrhea PCP noted jaundice	Surgical history: Appendectomy (12 yrs ago)
Medications: Sertraline 50mg daily Atorvastatin 10mg daily Tamsulosin 0.4mg qhs	Social history: Smokes 4 cigarettes per day 15 shots of whiskey daily No drug use

59yo male: AUDIT C

9 points

Scores ≥ 5 are consistent with alcohol misuse and possible liver damage.

Copy Results 

Next Steps 

How often did you have a drink containing alcohol in the past year?

Never	0
Monthly or less	+1
Two to four times a month	+2
Two to three times per week	+3
Four or more times a week	+4

How many drinks containing alcohol did you have on a typical day when you were drinking in the past year?

1 or 2 drinks	0
3 or 4	+1
5 or 6	+2
7 to 9	+3
10 or more	+4

How often did you have six or more drinks on one occasion in the past year?

Never	0
Less than monthly	+1
Monthly	+2
Weekly	+3
Daily or almost daily	+4

59yo male: Physical Exam

Vitals T 36.1C BP 147/62 HR 90 RR 20 SpO2 95%	Abdominal: Distended Tender to palpation throughout Severe TTP in RUQ
Cardiac: Regular rate and rhythm No murmurs JVP distended to earlop with patient sitting upright	MSK Bilateral lower extremities warm with pitting edema
Pulmonary: Bibasilar crackles	Neuro Asterixis AAOx2

59yo male: Labs

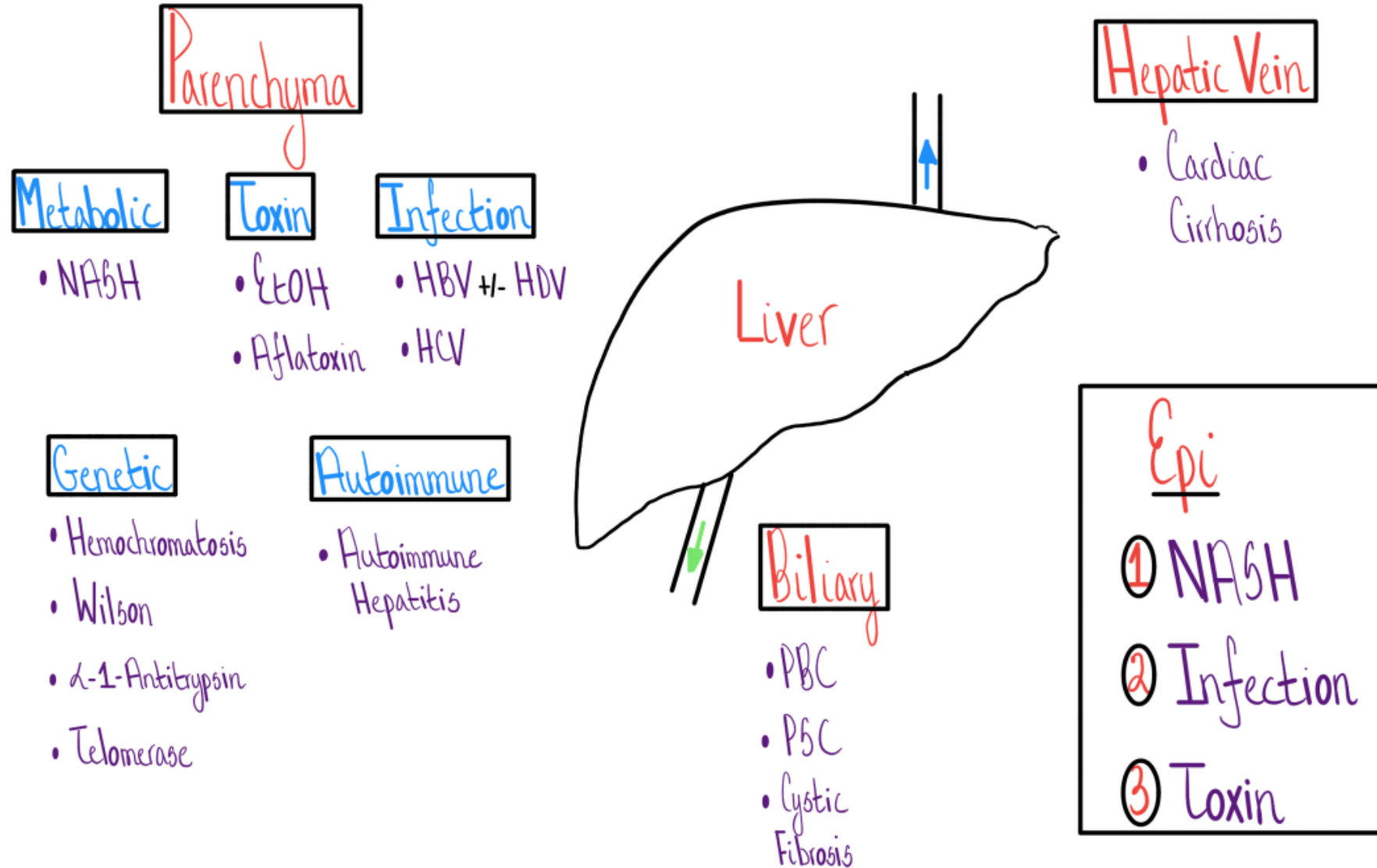
- Na 126
- AST 178
- ALT 52
- TBili 23.7
- Albumin 2.8
- Cr 0.8
- INR 1.77
- WCC 17
- Hb 9.7
- Plts 80,000
- Ferritin 1089
- TSat 42%
- Hepatitis A IgM neg
- Hepatitis B core IgM neg
- Hep C Ab neg
- ANA neg, ASMA neg, IgG elevated
- US abdomen with doppler, no hepatic vein thrombosis

59yo male: Additional labs

59yo male: Imaging



Cirrhosis



What is the most likely diagnosis?

Join [menti.com](https://www.menti.com)

Code 5363 4509

- Acute cholecystitis
- Alcoholic hepatitis
- Hemochromatosis
- Acetaminophen toxicity
- Hepatic abscess

Learning point #1

- Most typical alcoholic hepatitis is a clinical diagnosis
- Liver biopsy is only indicated for atypical presentation with clinical uncertainty

Diagnosis of Alcoholic Hepatitis

What is the best next step in management?

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- Liver biopsy
- Pentoxifylline
- Paracentesis
- Prednisolone
- Cefepime

Learning point #2

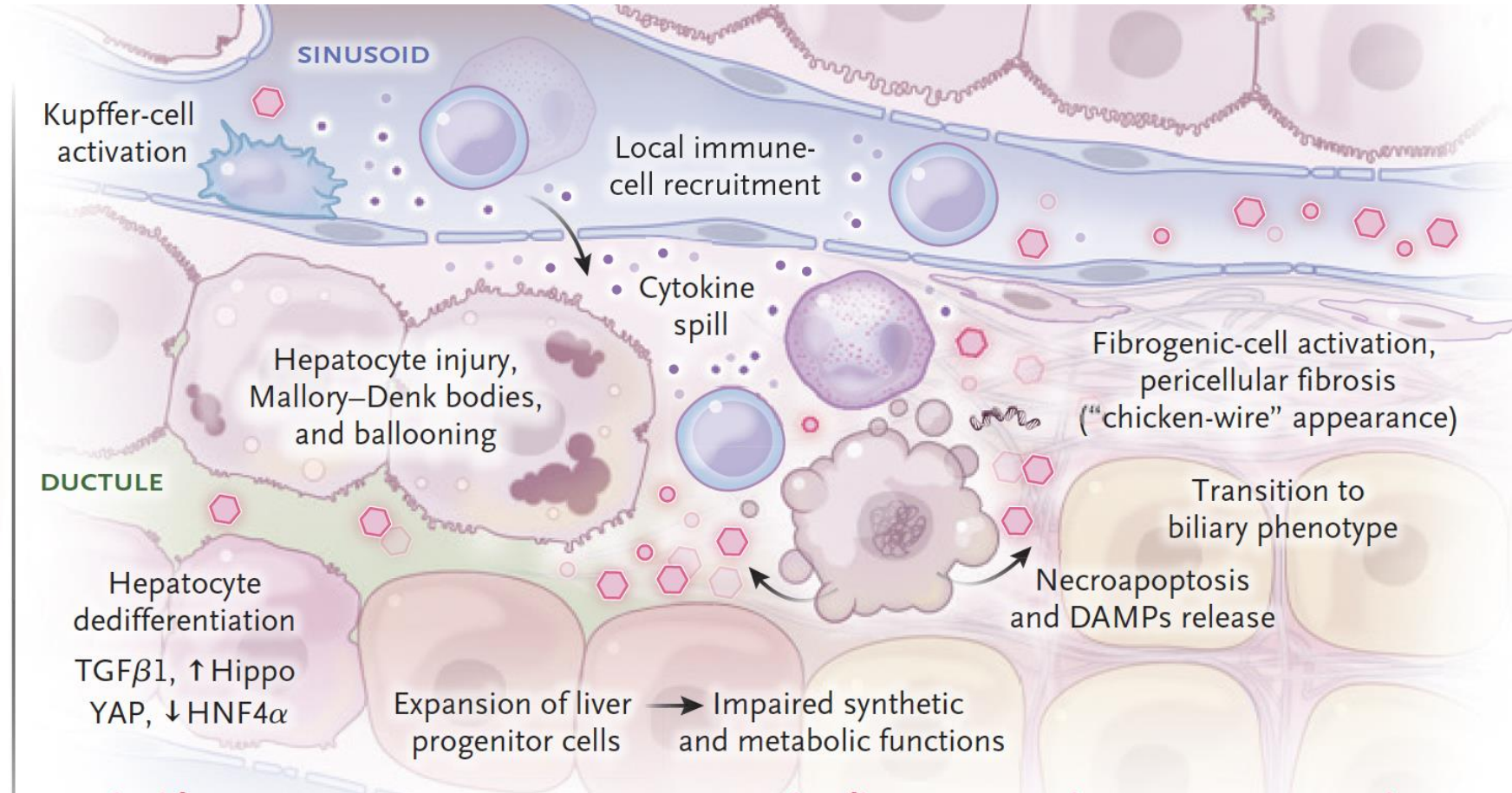
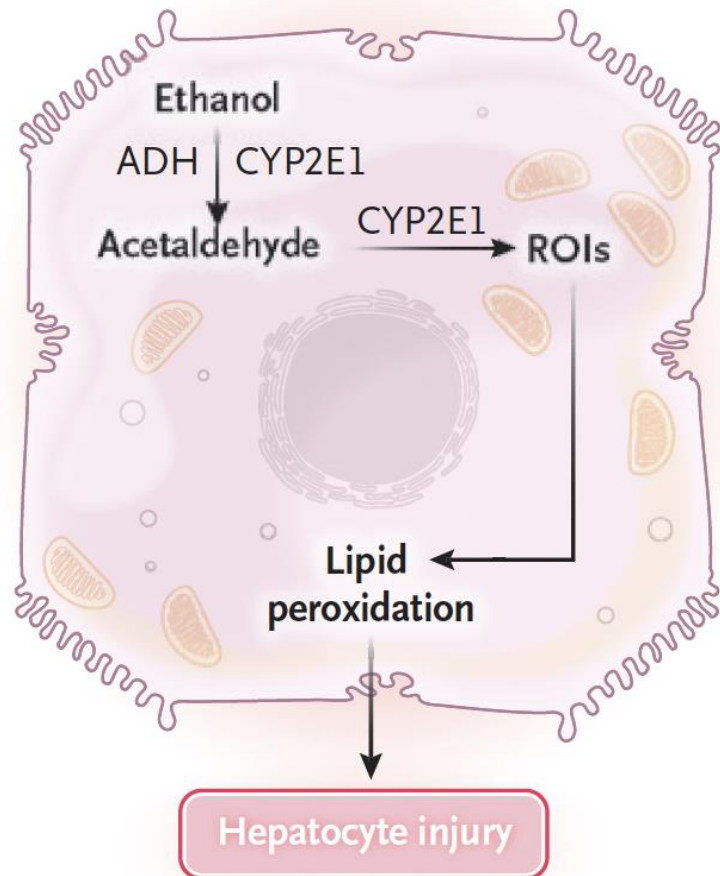
- Prednisolone should be given for Maddrey's discriminant function >32 when there is no suspected infection
- Paracentesis should be performed in patients with AH and ascites to rule out SBP

Epidemiology

- 50% of all deaths due to liver disease are due to alcohol
- Alcohol associated liver disease develops in 35% of patients with AUD
- Liver disease ranges
 - Steatosis
 - Steatohepatitis
 - Fibrosis accumulation
 - Cirrhosis
 - Hepatocellular carcinoma

Cirrhosis in Alcohol use disorder

B Hepatocyte Dysfunction



Antioxidants

- N-acetylcysteine ± enteral nutrition
- Metadoxine
- n-5 Fatty acids

Drugs targeting liver regeneration

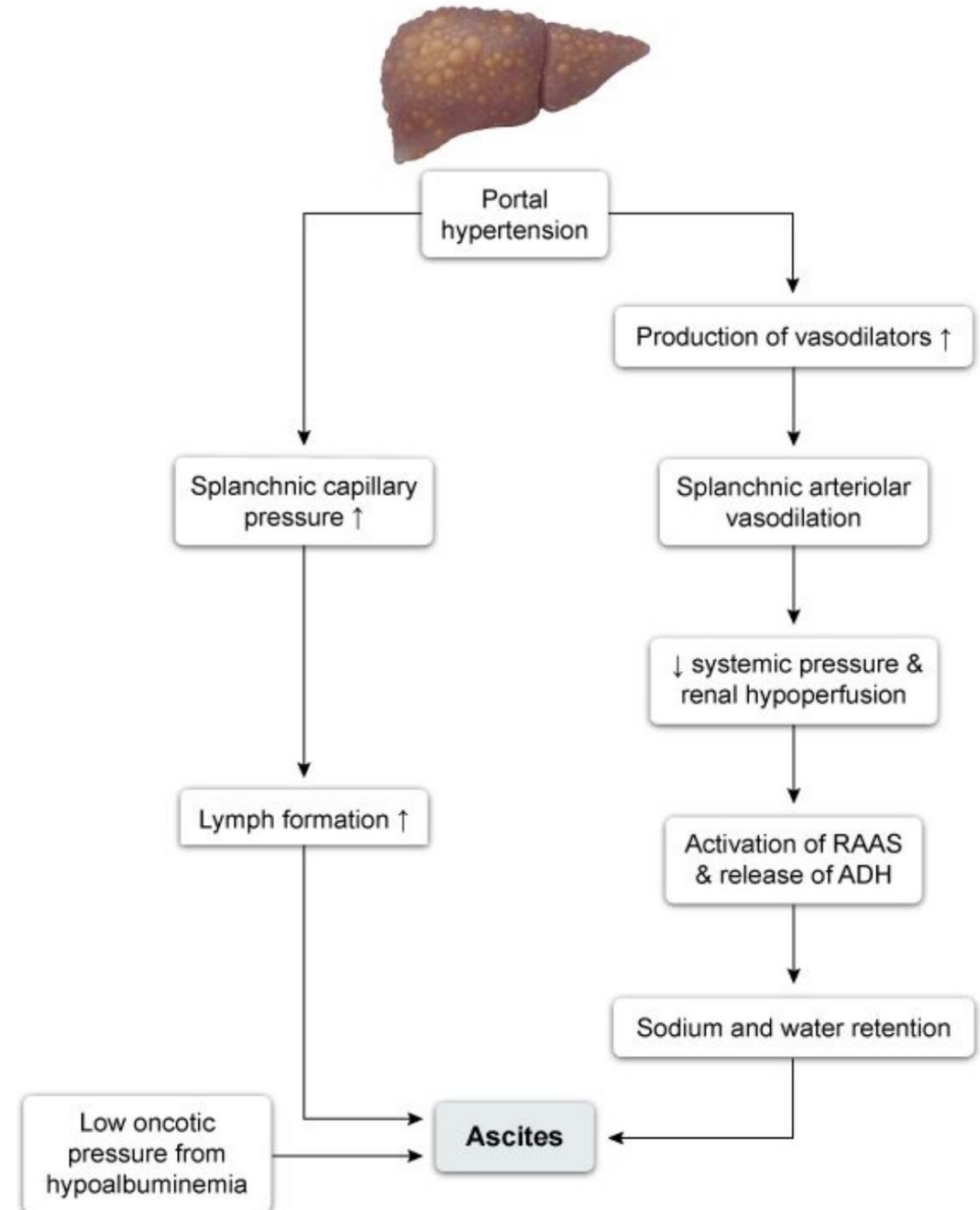
- Interleukin-22
- G-CSF
- G-CSF plus N-acetylcysteine

Drugs targeting apoptosis

- Selonsertib
- Emricasan

Ascites in Cirrhosis

Pathogenesis of ascites in cirrhosis

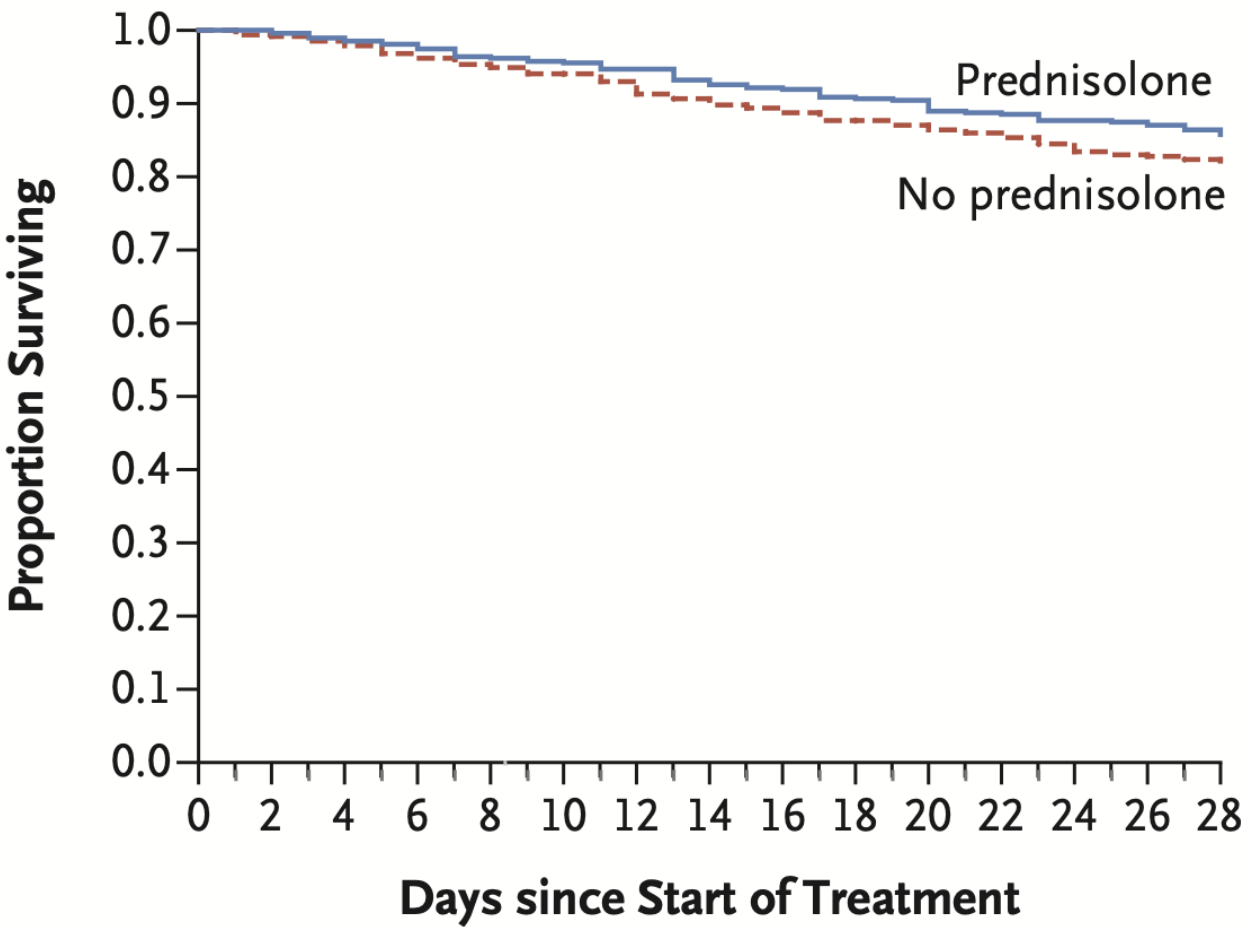


Treatment of Alcoholic Hepatitis

- Enteral nutrition, adequate protein and caloric intake
- Thiamine, B complex vitamins
- Treatment of sepsis if appropriate
- Gastric ulcer prophylaxis
- Prednisolone for MDR > 32 and no infection
- N-acetylcysteine may benefit these patients
- Liver transplant

STOPAH Trial

A Prednisolone vs. No Prednisolone



No. at Risk					
Prednisolone	543	514	483	459	427
No prednisolone	546	523	494	468	450

Liver transplant

- Alcohol related cirrhosis – 15% of liver transplants
- Referral
- Evaluation for comorbidities
- Evaluation for risk of recidivism
- Outcomes – survival rates around 84% at 1 year, 58-73% at 10 years

Learning points

- AUDIT C score for alcohol use disorder
- Most alcoholic hepatitis is a clinical diagnosis
- Liver biopsy is only indicated for atypical presentations
- Maddreys discriminant >32 -> prednisolone if no infection
- Paracentesis should be performed in patients with AH and ascites to rule out SBP

References

- Bataller R, Arab JP, Shah VH. Alcohol-Associated Hepatitis. N Engl J Med. 2022 Dec 29;387(26):2436-2448. doi: 10.1056/NEJMra2207599. PMID: 36577100.
- Singal AK, Bataller R, Ahn J, Kamath PS, Shah VH. ACG Clinical Guideline: Alcoholic Liver Disease. Am J Gastroenterol. 2018 Feb;113(2):175-194. doi: 10.1038/ajg.2017.469. Epub 2018 Jan 16. PMID: 29336434; PMCID: PMC6524956.
- Verma A, Jensen D. A Case of Rapid Decline in Alcohol-Associated Liver Disease. Clin Liver Dis (Hoboken). 2021 Feb 28;17(2):67-70. doi: 10.1002/cld.997. PMID: 33680438; PMCID: PMC7916431.

Thank You!