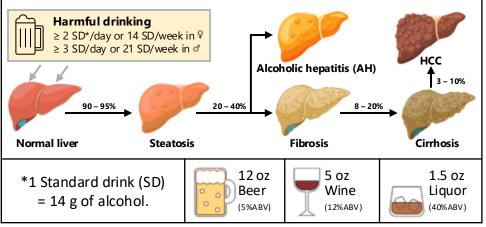
# ACG Clinical Guideline: Alcohol-Associated Liver Disease (ALD)

## By Thanita Thongtan, MD

#### ALD disease spectrum



### Diagnosis and management of alcohol use disorder (AUD) in patients with ALD

Screen for AUD w/ AUDIT-C at every medical encounter. Consider using alcohol biomarkers for patients w/ altered mental status or unreliable alcohol history.

Non-pharmacologic Tx: brief motivational intervention (5"A" model; ask, advice, assess, assist, & arrange).

Pharmacologic Tx for compensated ALD:

- Recommend **Baclofen** (titrate from 5 mg PO TID to 15 mg PO TID).
- Suggest Acamprosate (avoid if GFR < 30), Naltrexone, Gabapentin, or Topiramate
- X Disulfiram due to its ineffectiveness and idiosyncratic hepatotoxicity

Address and manage alcohol withdrawal syndrome using the CIWA protocol. Use **benzodiazepines cautiously**, w/ careful monitoring to avoid precipitating coexisting hepatic encephalopathy. Lorazepam and oxazepam are preferred over diazepam or chlordiazepoxide in patients w/ poor liver function due to their shorter t1/2 & different metabolic pathways.

NITs: non-invasive tests

	ALD screening	Alcoh	Alcohol biomarkers			
	Screen individuals w/ harmful drinking using cost-effective NITs (FIB-4 ± FibroScan) for early detection and assessment of fibrosis severity in asymptomatic ALD. Reserve liver biopsy for cases where NITs are inconclusive.	Test	Source	Window	Sens (%)	Spec(%)
		EtOH	Blood	12 – 24 h	30 – 50	95
ed		EtG	Urine	3 – 7 d	70 – 76	93 – 99
	Counsel patients w/ heavy drinking and ALD on the risk of progressive liver disease with continued alcohol consumption, and refer them to a hepatologist.	EtS	Urine	3 – 7 d	73 – 82	86-89
		CDT	Blood	2 – 4 wk	25 - 100	57 – 100
		PEth	Blood	30 d	73 – 100	66-96
	Management of ALD	EtG	Hair	3 – 6 mo	58–100	66-100
olic	Absolute alcohol abstinence. Treat AUD w/ behavioral Tx ± medication managed by an <b>integrated multidisciplinary team</b>	EtOH: ethanol, EtG: ethyl glucuronide, EtS: ethyl sulfate, CDT: carbohydrate-deficient transferrin, PEth: phosphatidylethanol				
	including a hepatologist and addiction specialist.					
	General care for cirrhosis.					
stric	Liver transplant (LT) referral for patients w/ ALD cirrhosis					

# Epidemiology and disease burden

ALD is a major cause of advanced liver disease and liver-related mortality globally.  $\uparrow$ Prevalence among younger adults, women, and minorities.

Patients w/ ALD often present at an advanced stage w/ cirrhosis complications, progress faster than other liver diseases, and rarely received AUD treatment.

# **Risk factors for ALD**

Risk factors:  $\uparrow$  amount/duration of EtOH use, daily use & binge drinking in those w/ liver disease, ♀ sex, drinking outside of meals, liquor, genetic variants ( $\alpha$ -1 antitrypsin, PNPLA3, TM6SF2, and MBOAT7), obesity, metabolic syndrome, gastric bypass anatomy, & chronic hepatitis viral infection

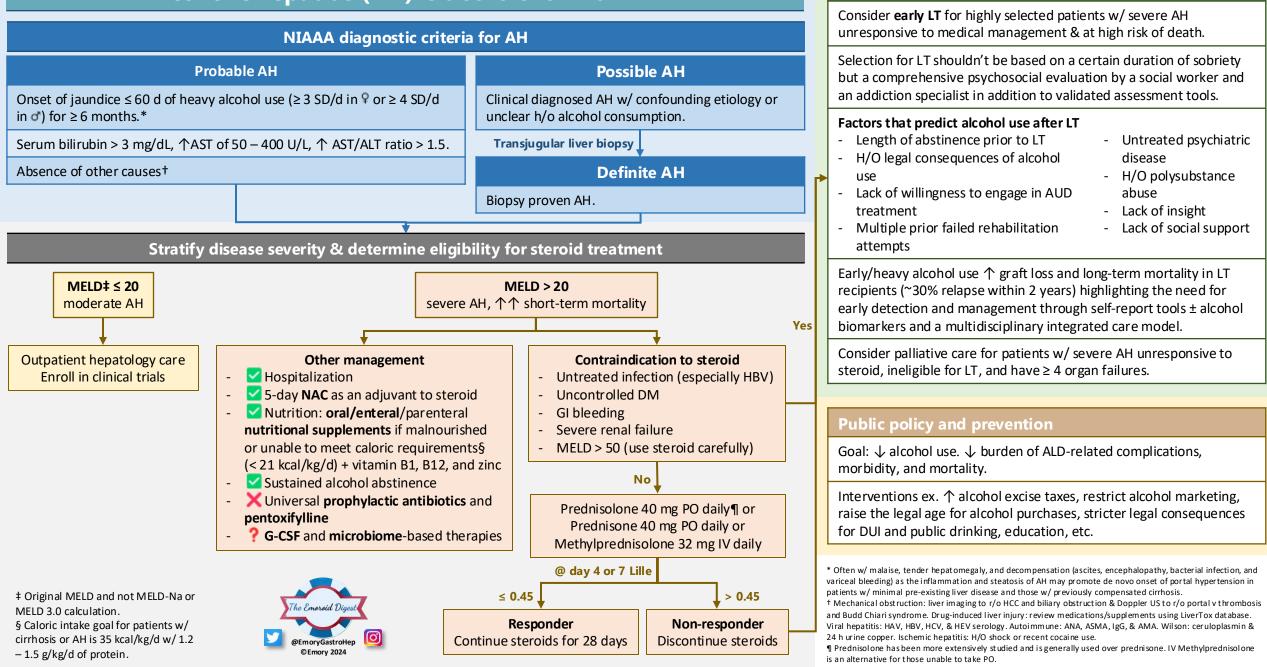
Recommend tobacco cessation for patients w/ heavy alcohol use due to  $\ensuremath{\uparrow} risk$  of cirrhosis.

Recommend patients w/ obesity, type 2 diabetes, a history or planned gastric bypass surgery, or chronic HBV/HCV infection to **avoid alcohol consumption.** 

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complications.





Liver transplant (LT)/ palliative care

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