

Virtual Grand Rounds universe.gi.org **ACG Virtual Grand Rounds** Join us for upcoming Virtual Grand Rounds! Week 34 - Thursday August 21, 2025 GI Nutrition Care Series: Micronutrient Deficiencies and Malabsorption Faculty: Kristen Roberts, PhD, RDN, CNSC, FASPEN, FAND Moderator: Lindsey Russell, MD, MSc, CNSC At Noon and 8pm Eastern Week 35 - Thursday August 28, 2025 Short Bowel Syndrome/Intestinal Failure: Recognition, Complications, and Basic Management Faculty: John K. DiBaise, MD, FACG Moderator: Dejan Micic, MD, FACG At Noon and 8pm Eastern Visit gi.org/ACGVGR to Register



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#### **Disclosures**



Ashwani K. Singal, MD, MS, FACG:

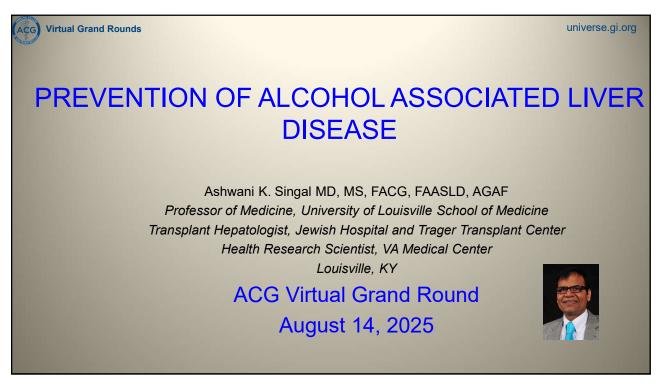
ACG: Research Grant, Speakers Bureau; APF: Advisory Board, Consultant; CSL Behring: Advisory Board, Consultant; CLD Foundation: Speakers Bureau; Guidepoint: Advisory Board, Consultant; Gilead: Advisory Board, Consultant; Industry: Research Grant; Medscape Gastroenterology: Speakers Bureau; NIAAA: Research Grant; NIDDK: Research Grant; UAB: Research Grant; Up-To-Date: Royalties

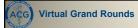


Hanna Blaney, MD, MPH: No relevant financial relationships with ineligible companies.

\*All of the relevant financial relationships listed for these individuals have been mitigated

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### Learning objectives

- Learn the alcohol attributable healthcare burden.
- Understand the role of national policies to reduce population level availability and use of alcohol.
- ❖ Recognize the role of healthcare providers in identifying high risk users and screen for underlying liver disease.
- ❖ Update on the current status and barriers in treatment of alcohol use disorder in patients with established liver disease.

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#### Alcohol associated healthcare burden

- ❖ 5.3% (3 million) deaths and 5.1% (132.6 million) of DALY, 75% in men
- ❖ Europe (10.1% of deaths and 10.8% of DALY), US (5.5% and 6.7%, respectively). Age standardized disease burden is highest in Africa
- ❖ In the US, alcohol attributable deaths/100,000 increased from 23.2 in 2016-2017 (N=137,927) to 29.4 in 2020-2021 (n=178,307).
- ❖ ALD mortality 9.7 per 100,000, increasing in young, females, and American Indians

World Health Organization; 2018; Mathurin and Singal JAMA 2021; 326: 165-76.

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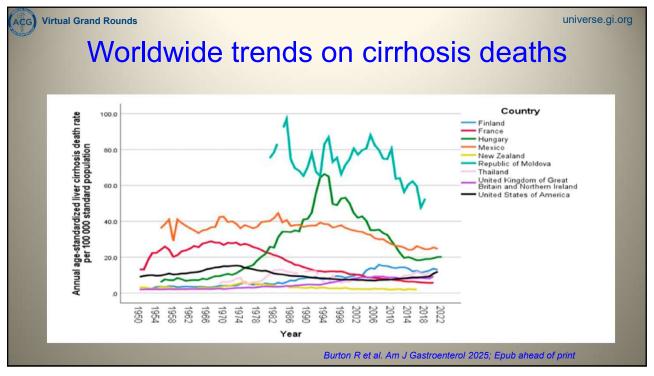
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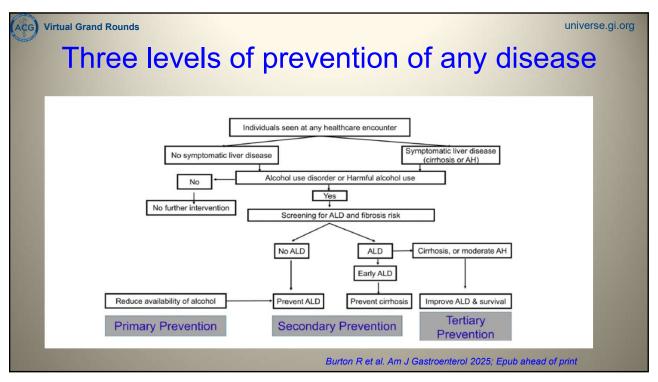
# Covid-19 pandemic and alcohol use

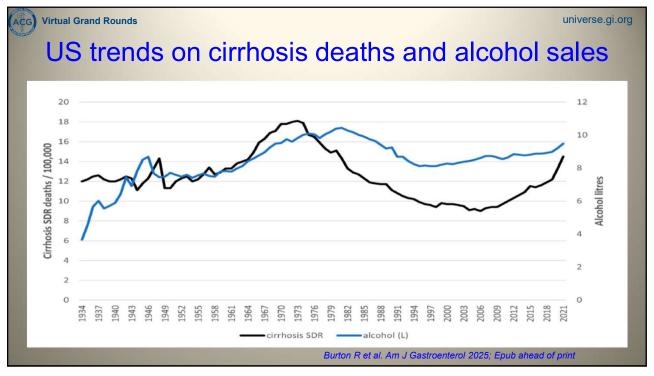
- Alcohol use increased during the COVID-19 for people already engaged in heavy or hazardously alcohol use.
- Alcohol support services access was disrupted, compounding the effects of social isolation on alcohol consumption.
- Morbidity related to ALD) and AUD accelerated during the COVID-19 pandemic with a) >50% increase in hospitalizations and b) acceleration of mortality
- ❖ After effects to continue with greater rates of liver disease to be seen for years to come.

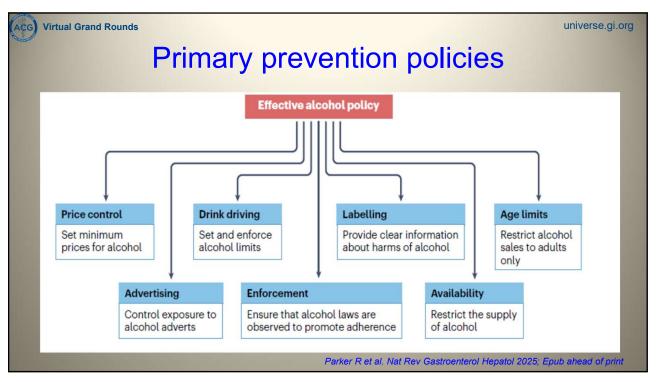
Deutsch-Link S et al. Clin Gastroenterol Hepatol 2022; 20: 2142-44 and Aberg et al. Hepatology 2024; 80: 1307-22.

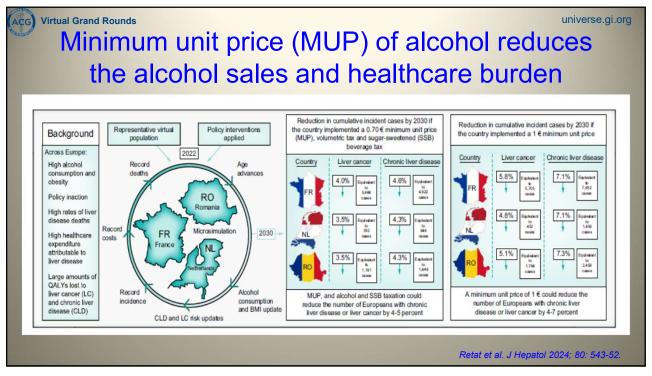
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Country	Year (Law)	MUP	Standard drink	Dollar conversion	Dollar/10g ethanol (international drink)
Australia	2018 (2019)	1.3 Aus \$	10 g	1	1
Scotland	2018 (2012)	65 pence	8 g	0.83	0.67
Wales	2020 (2018)	50 pence	8 g	0.64	0.51
	Several provin		canada and Soviet	Union also have MUF in Ireland.	P implemented.



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# Restricting alcohol availability

- In a systematic review, 7 of 7 studies confirmed that restricting days and hours of alcohol sales reduced availability of alcohol.
- ❖Increase in alcohol sale by 1 day can increase alcohol use by 3.4%.
- Three of 4 studies targeting density of outlets for alcohol sales confirmed that reducing the density of alcohol sale outlets can reduce alcohol availability and consumption.

Shrek et al. J Stud Alcohol Drugs 2018; 79: 58-67.

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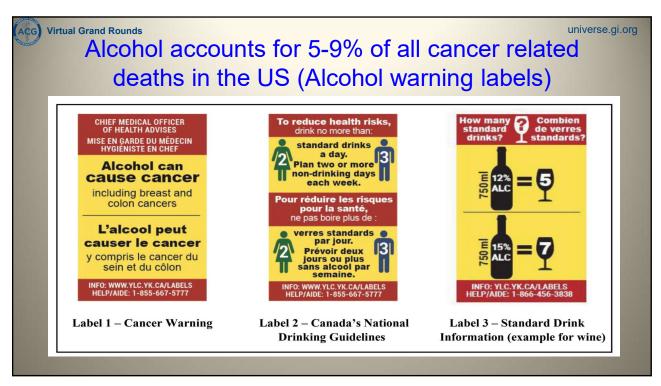
### Restricting alcohol advertising

- There is no or a weak evidence that restricting advertising reduces alcohol use.
- This may have more benefit and impact in younger and underage drinkers.
- Public support for restricting alcohol advertising is lower than for the other national policies.
- ❖Public health messaging on the product reduced alcoholuse by 6% in Canada.

Parker et al. Nat Rev Gastroenterol Hepatol 2025; Epub ahead of print.

Dekker et al. Int J Drug Policy 2020; 82: 102807.

Zhao et al. J Stud Alcohol Drugs 2020; 81: 225-37.







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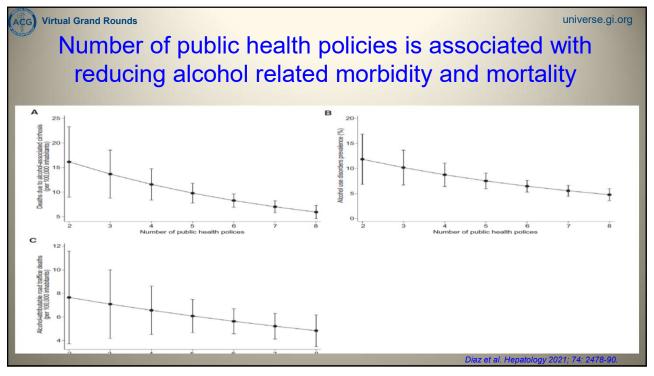
#### **Education and awareness**

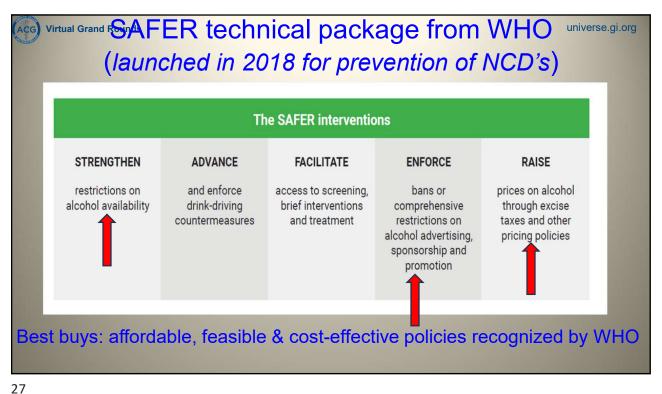
- National: NIH in US, NICE in UK, AEEH in South America
- Professional: AASLD; EASL; ALEH
- Voluntary: SAMSHA; Sober livers
- Dry January (alcohol abstinence month)

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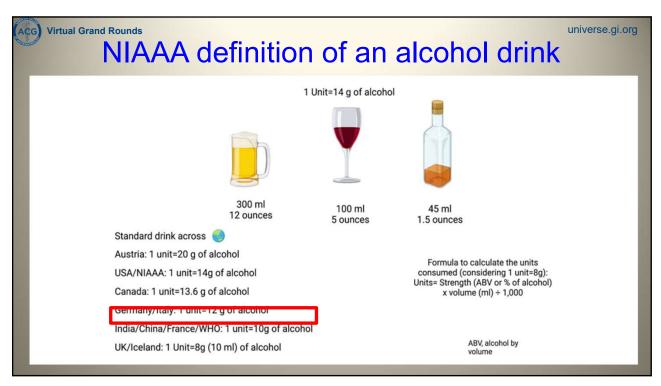
		implementation of p					
targeting to reduce alcohol use							
Intervention	Implementation rates (%)	Policy strengths	Policy weaknesses				
National plan to fight the harmful consequences of alcohol	Europe: 76 Asia: 70 Oceania: 60 Africa: 40 Americas: 29	Countries with atronger alcohol policies have lower rates of alcohol-related liver disease	Requires coordination from many agencie and government departments to formulate a national plan				
National licence for the control of production and selling of alcohol	Asia: 97 Americas: 89 Africa: 88 Europe: 80 Oceania: 80	Controls the supply of alcohol, where more stringent restrictions reduce overall consumption	illicit or home-produced alcohol will not be affected by legal restrictions				
Taxes control & pricing policies for alcohol products	Europe: 98 Asia: 97 Americas: 91 Africa: 90 Oceania: 80	Controlling the price of alcohol, through taxation or setting a minimum price, reduces alcohol-related harms including a reduction in liver disease	Financial strain in people dependent on alcohol				
Limiting drinking age	Europe: 100 Americas: 89 Asia: 88 Africa: 86 Oceania: 80	Age controls show a positive effect on alcohol-attributable mortality in cohort studies	Limiting access in older teenagers may encourage illicit consumption				
Restrictions to alcohol access	Europe: 91 Asia: 91 Americas: 86 Africa: 84 Oceania: 60	Increased access to alcohol increases harm: conversely, reduced access either through outlets or time-restricted selling can reduce harm including liver disease	Habitual or dependent drinkers may still be able to obtain alcohol				
Driving-related alcohol policies	Asia: 100 Europe: 100 Africa: 96 Americas: 91 Oceania: 80	Enforcement of alcohol limits for driving reduces drink-driving and road traffic accidents	Limits must be enforced to be effective				
Control over advertising and promotion of alcohol products	Asia: 94 Europe: 93 Africa: 66 Americas: 56 Oceania: 40	Restricting advertising may have an effect on consumption of alcohol by younger people	Limited evidence of overall effect on consumption				

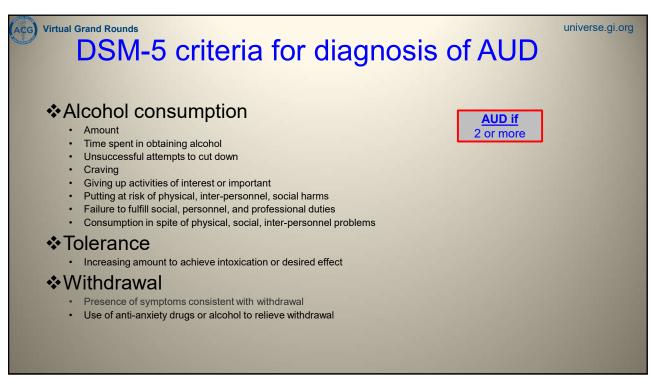
Alcohol America Study  Luis Antonio Diaz   Carolina A. Ramírez   Luis Guillermo Toro, " Gi Catterina Ferreccio   Marco Arress   ," and J	Francisco	Idalsoaga Do lo Roblero II	,¹ Eduardo F	Liverites-L. C. Araujo	opez © ,² An	Dise ultir	ase 1ati	in L	si (ID ,13
	Deaths due to alcohol- associated cirrhosis* PR 95%CI p-value			Alcohol use disorders**			Alcohol-attributable deaths due to road traffic injuries**		
Public policies  1. National plan to fight			p-value	PR	95%CI	p-value	PR	95%CI	p-value
narmful consequences of alcohol consumption	0.13	0.05-0.32	<0.001	0.17	0.06-0.48	0.001	0.22	0.09-0.60	0.003
2. Taxes control & pricing policies	0.90	0.27-3.02	0.865	0.71	0.17-2.95	0.640	0.89	0.20-4.00	0.877
3. Drinking age and youth focus policies	0.28	0.09-0.81	0.019	0.63	0.22-1.96	0.424	0.42	0.15-1.19	0.101
4. Driving-related alcohol policies	0.31	0.12-0.83	0.020	0.35	0.15-0.83	0.016	0.33	0.12-0.89	0.029
5. Control over advertising and promotion	0.44	0.17-1.10	0.080	0.44	0.12-1.81	0.268	0.55	0.15-2.07	0.378
5. Government monitoring systems	0.49	0.18-1.38	0.177	0.48	0.20-1.19	0.113	0.39	0.16-0.96	0.040
7. Restrictions to alcohol access	0.25	0.09-0.67	0.006	0.34	0.13-0.91	0.032	0.90	0.26-3.01	0.850
3. National license, production, and selling control	2.24	0.51-9.95	0.288	1.46	0.35-6.01	0.604	1.73	0.45-6.71	0.428
Model adjusted by obesity and			0-20 -X	to 10		h p<0.05	nfidence i	nterval.	

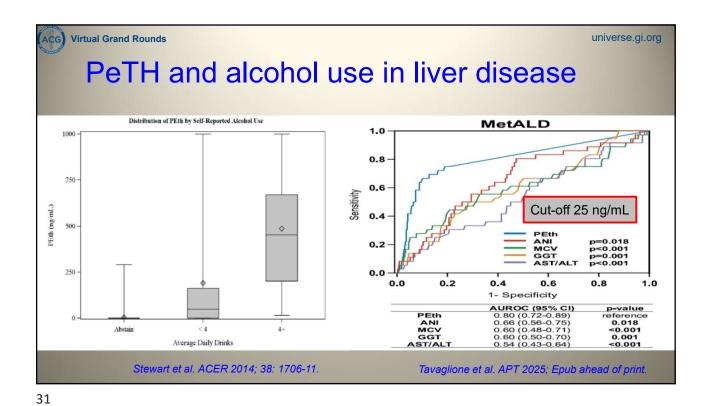




Questions	0	1	2	3	4
How often do you have a drink containing alcohol?	Never	Monthly or less	2 to 4 times a month	2 to 3 times a week	4 or more times a week
How many drinks containing alcohol do you have on a typical day when you are drinking?	1 or 2	3 or 4	5 or 6	7 to 9	10 or more
3. How often do you have 5 or more drinks on one occasion?	Never	Less than monthly	Monthly	Weekly	Daily or almost daily
4. How often during the last year you found that you were not able to stop drinking once you had started?	Never	Less than monthly	Monthly	Weekly	Daily or almost daily
5. How often during the last year have you failed to do what was normally expected of you because of drinking?	Never	Less than monthly	Monthly	Weekly	Daily or almost daily
6. How often during the last year have you needed a first drink in the morning to get yourself going after a heavy drinking session?	Never	Less than monthly	Monthly	Weekly	Daily or almost daily
7. How often during the last year have you had a feeling of guilt or remorse after drinking?	Never	Less than monthly	Monthly	Weekly	Daily or almost daily
How often during the last year have you been unable to remember what happened the night before because of your drinking?	Never	Less than monthly	Monthly	Weekly	Daily or almost daily
9. Have you or someone else been injured because of your drinking?	No		Yes, but not in the last year		Yes, during the last year
10. Has a relative, friend, doctor or other health care worker been concerned about your drinking or sug- gested you cut down?	No		Yes, but not in the last year		Yes, during the last year
AUDITO			<u>UDIT</u>		
AUDIT-C 3 or more in F			UD and >15		
4 or more in M			oderate to ere AUD		





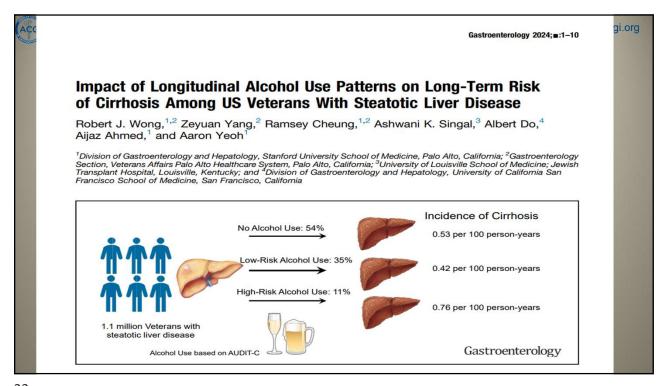


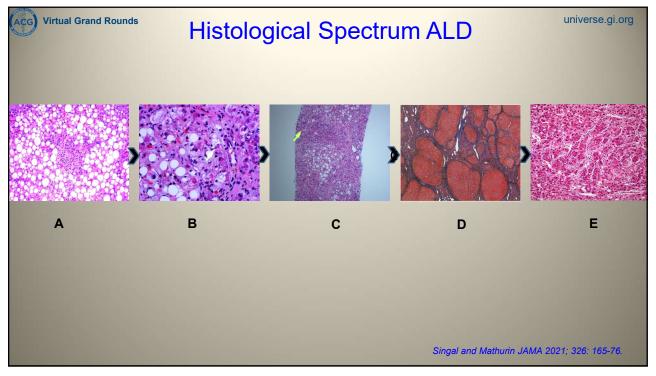
Missed opportunity during clinical encounters prior to development of cirrhosis in individuals at risk for ALD

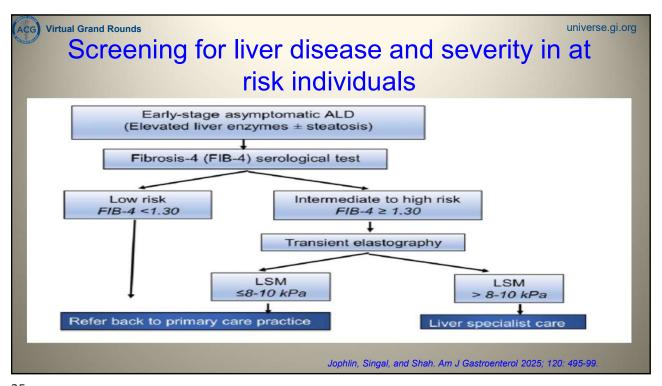
\*Danish registry of 36,054 individuals (188-2002) with alcohol use disorder

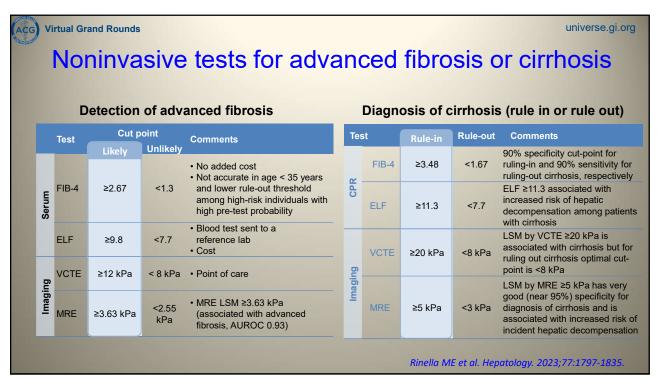
\*At 15 years follow up, 5-6% developed liver cirrhosis

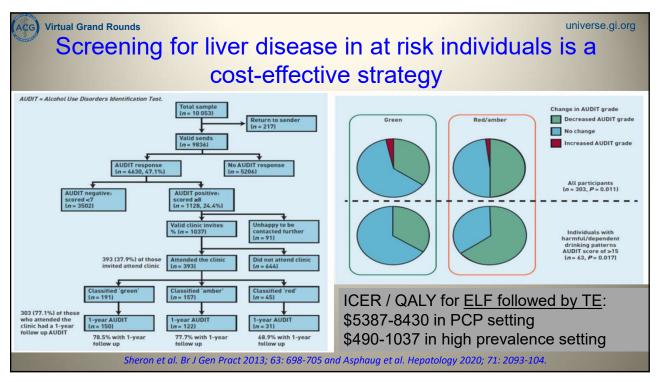
\*Askgaard et al. Hepatology 2017; 65: 929-37.

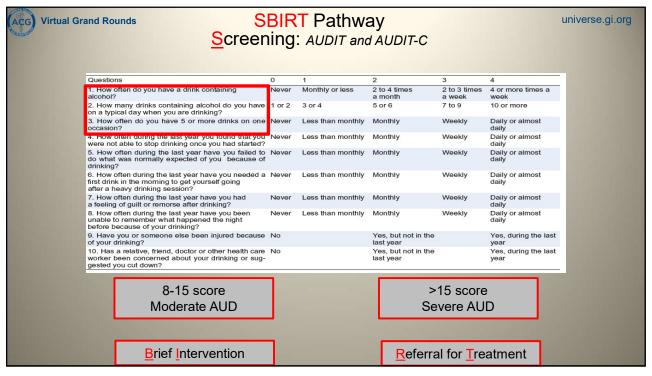












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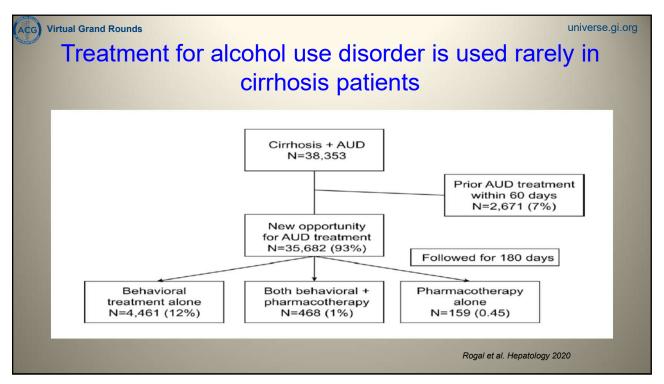
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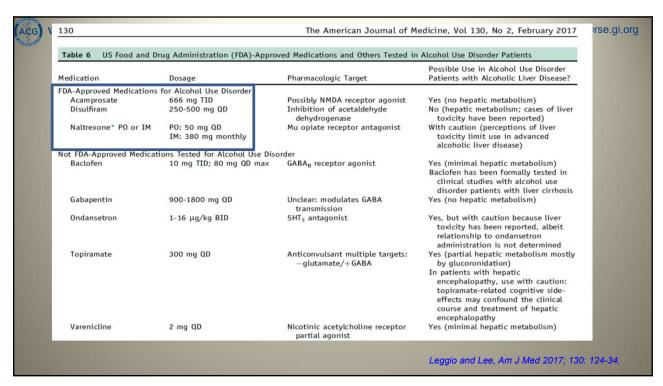
#### AUD treatment in ALD patients: real world data

- ❖ Systematic review of 25 studies on 93,899 (33,834 AUD intervention)
- ❖ Only seven RCT, reduced relapse by 73% (0.27: 0.15-0.46)
- ❖ Of 5 RCT (n=322) using MAUD relapse reduced by 77% (0.23: 0.14-0.39)
- ❖ Reduced readmission (five observational studies) by 48%
- Reduced decompensation (two observational studies) by 52%
- No benefit on mortality on pooling data from three observational studies.
- Eight observational studies on LT recipients, reduced alcohol relapse by 59%, with 58% and 60% using integrated and non-integrated models.
- Reduced patient mortality by 56% in three observational studies, but not in two RCTs (0.82: 0.38-1.79).

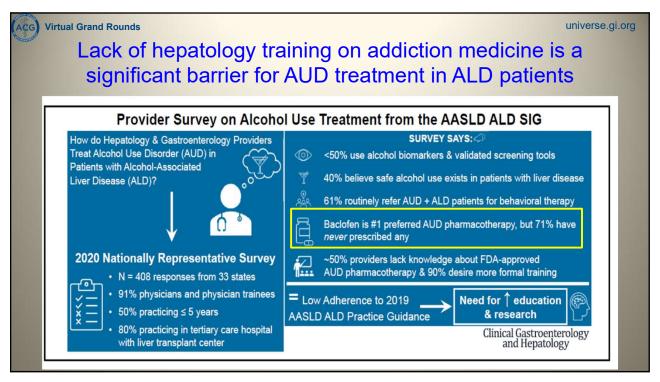
Singal et al. Hepatol Comm 2025; Epub ahead of print.

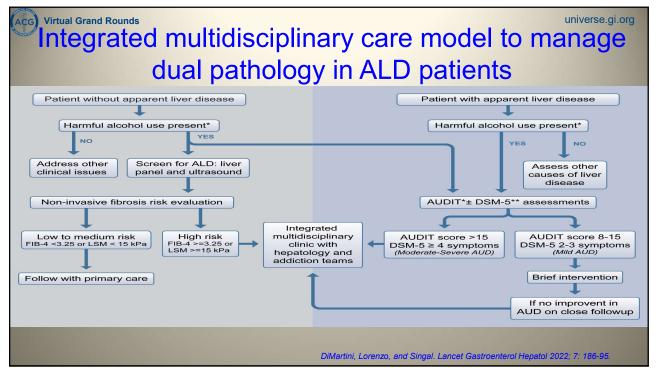
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# System level barriers in implementing integrated care model in practice

- Siloed practices and lack of time for AUD care
- Difficulty in billing two providers on same patient
- Limited time to address AUD and complex liver disease
- Lack of will power and investment in the multidisciplinary care model approach

DiMartini, Lorenzo, and Singal. Lancet Gastroenterol Hepatol 2022; 7: 186-95

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# **Key Takeaways**

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- ❖ Alcohol associated liver disease is a preventable disease.
- Reducing availability of alcohol with national policies is the most effective way to improve population health.
- ❖ Early identification of at-risk individuals and of liver disease reduces development of advanced disease like cirrhosis and alcohol-associated hepatitis.
- Treatment to control alcohol use in ALD patients improves long-term outcomes and patient survival.
- Studies are needed to examine integrated care model with hepatology and addiction teams to manage dual pathology of ALD and of AUD in clinical practice and research trials.

