

“Alcohol-related liver disease: a holistic and personalized approach”

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Barcelona**



**UNIVERSITAT DE
BARCELONA**

MAIN TOPICS

1. Never decompensated ALD
2. Alcohol-associated hepatitis
3. Treatment of underlying alcohol use disorder

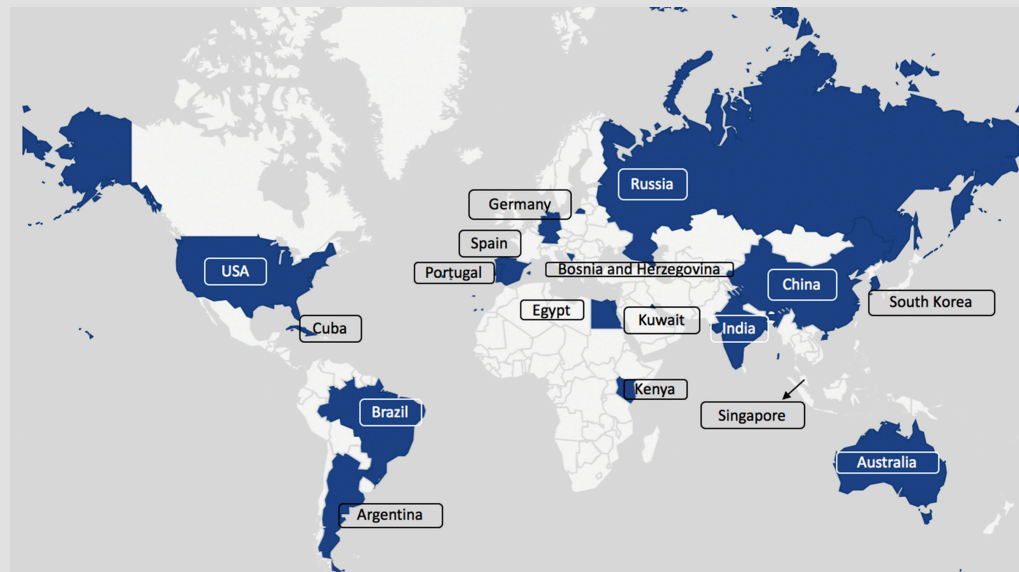
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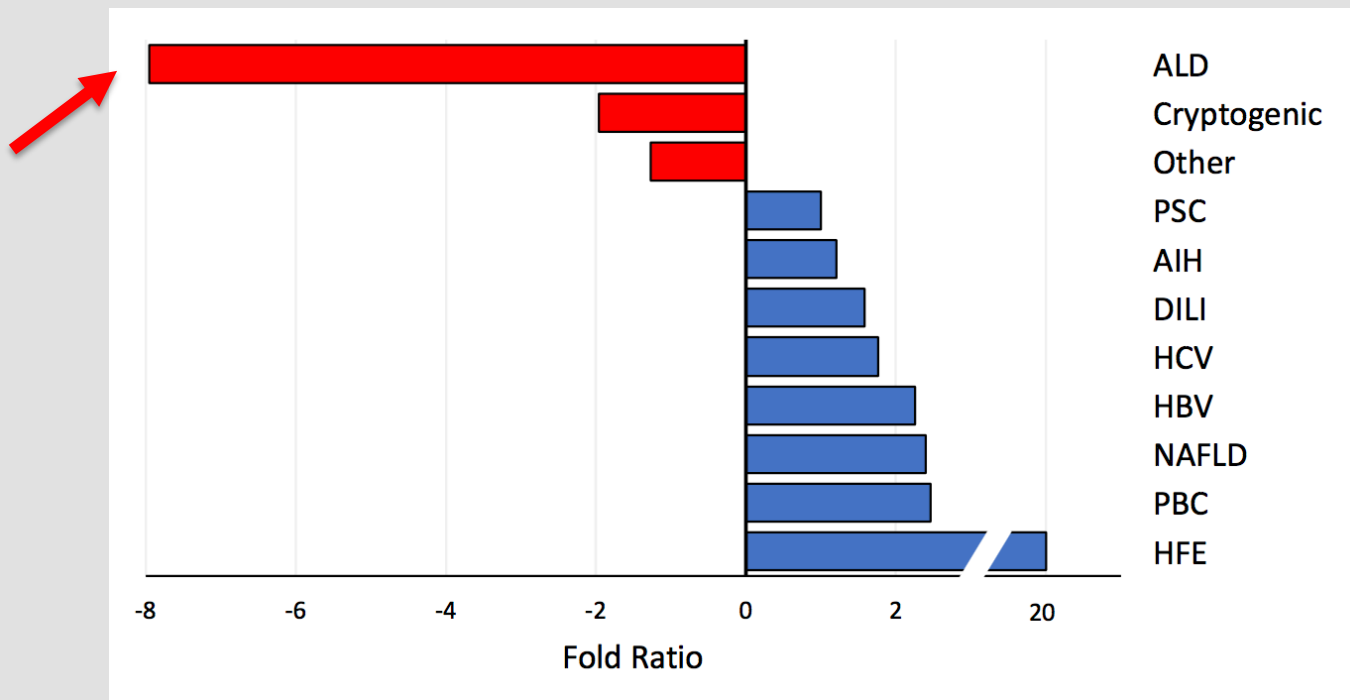
DETECTION OF EARLY vs ADVANCED ALD WORLDWIDE

Alcohol-Related Liver Disease Is Rarely Detected at Early Stages Compared With Liver Diseases of Other Etiologies Worldwide

Neil D. Shah,^{*,a} Meritxell Ventura-Cots,^{+,S,a} Juan G. Abraldes,^{||} Mohamed Alborae,^{||,#} Ahmad Alfadhli,^{||} Josepmaria Argemi,^{+,**} Ester Badia-Aranda,^{++,} Enrique Arús-Soler,^{\$\$} A. Sidney Barritt IV,^{*} Fernando Bessone,^{|||} Marina Biryukova,^{|||} Flair J. Carrilho,^{##} Marlen Castellanos Fernández,^{\$\$} Zaily Dorta Guiridi,^{|||} Mohamed El Kassas,^{***} Teo Eng-Kiong,⁺⁺⁺ Alberto Queiroz Farias,^{##} Jacob George,^{\$\$\$} Wenfang Gui,^{|||} Prem H. Thurairajah,⁺⁺⁺ John Chen Hsiang,⁺⁺⁺ Azra Husić-Selimovic,^{|||} Vasily Isakov,^{|||} Mercy Karoney,^{###} Won Kim,^{****} Johannes Kluwe,⁺⁺⁺ Rakesh Kochhar,^{\$\$\$\$} Narendra Dhaka,^{\$\$\$\$} Pedro Marques Costa,^{|||} Mariana A. Nabeshima Pharm,^{##} Suzane K. Ono,^{##} Daniela Reis,^{|||} Agustina Rodil,^{##} Caridad Ruenes Domech,^{\$\$} Federico Sáez-Royuela,⁺⁺ Christoph Scheurich,⁺⁺⁺ Way Siow,^{\$\$\$} Nadja Sivic-Burina,^{|||} Edna Solange Dos Santos Traquino,^{\$\$} Fatma Some,^{###} Sanjin Spreckic,^{|||} Shiyun Tan,^{|||} Julio Vorobioff,^{|||} Andrew Wandera,^{###} Pengbo Wu,^{|||} Mohamed Yacoub,^{###} Ling Yang,^{|||} Yuanjie Yu,^{|||} Nerma Zahiragic,^{|||} Chaoqun Zhang,^{|||} Helena Cortez-Pinto,^{|||} and Ramon Bataller^{+,+}



DETECTION OF EARLY vs ADVANCED ALD WORLDWIDE: THE GLADIS STUDY

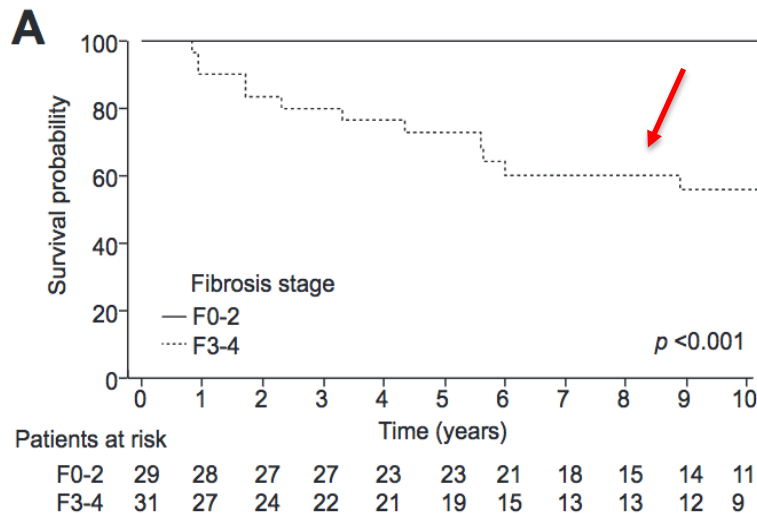


Advanced - decompensated

Early - compensated

Histological parameters and alcohol abstinence determine long-term prognosis in patients with alcoholic liver disease

Carolyn Lackner^{1,*†}, Walter Spindelboeck^{2,†}, Johannes Haybaeck¹, Philipp Douschan², Florian Rainer², Luigi Terracciano³, Josef Haas⁴, Andrea Berghold⁵, Ramon Bataller⁶, Rudolf E. Stauber²



1. *Why some patients develop F3-F4 ?*
2. *Why not all F4 decompensate and die ?*

CAN WE PREDICT PATIENTS PROGRESSING TO CIRRHOSIS ?

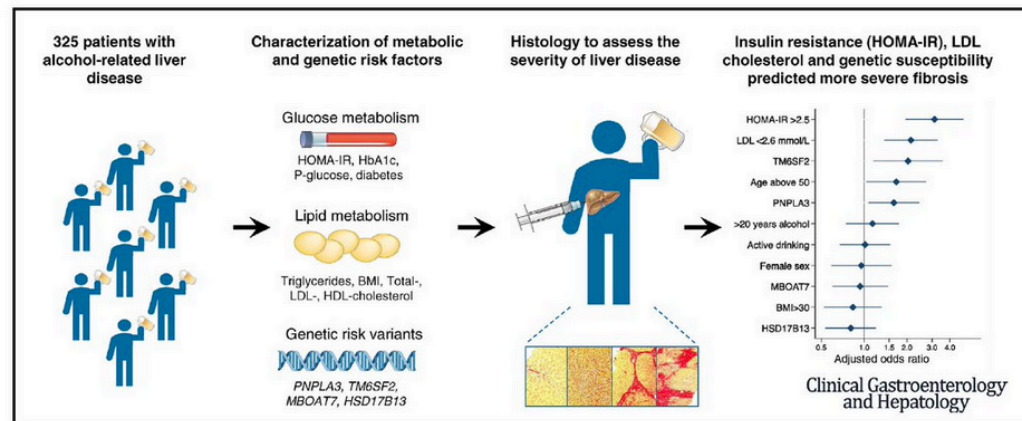
Metabolic and Genetic Risk Factors Are the Strongest Predictors of Severity of Alcohol-Related Liver Fibrosis



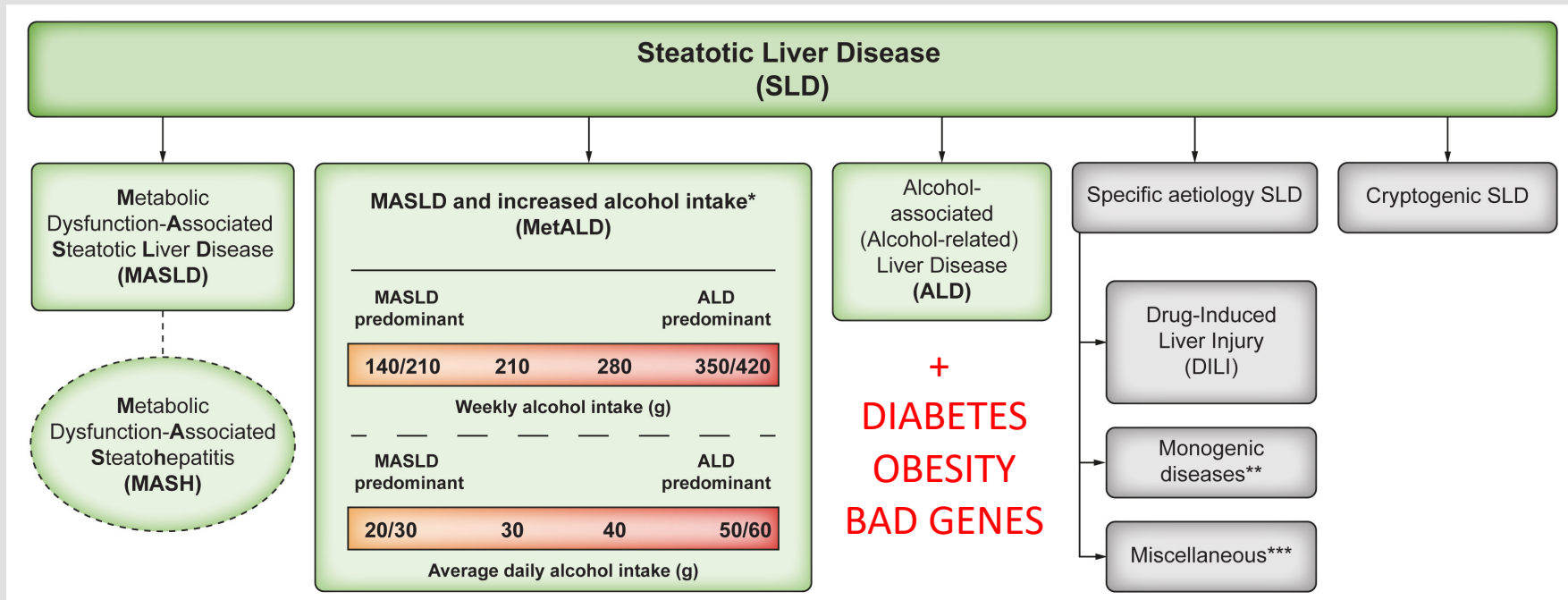
Mads Israelsen,^{*,‡} Helene Bæk Juel,[§] Sönke Ditlefsen,^{‡,||} Bjørn Stæhr Madsen,^{*,‡} Ditlev Nytoft Rasmussen,^{*,‡} Trine R. Larsen,^{||} Maria Kjærgaard,^{*,‡} Mary Jo Fernandes Jensen,[§] Stefan Stender,^{#,**} Torben Hansen,[§] Aleksander Krag,^{*,‡} and Maja Thiele,^{*,‡} on behalf of the GALAXY and MicroLiver consortia

^{*}Department of Gastroenterology and Hepatology, Odense University Hospital, Odense; [‡]Institute of Clinical Research, Faculty of Health Sciences, University of Southern Denmark, Odense; [§]Novo Nordisk Foundation Center for Basic Metabolic Research, University of Copenhagen, Copenhagen; ^{||}Department of Pathology, Odense University Hospital, Odense; ^{||}Department of Clinical Biochemistry, Svendborg Hospital, Svendborg; [#]Department of Clinical Biochemistry, Rigshospitalet, Copenhagen; and ^{**}Department of Gastroenterology and Hepatology, Hvidovre Hospital, Hvidovre, Denmark

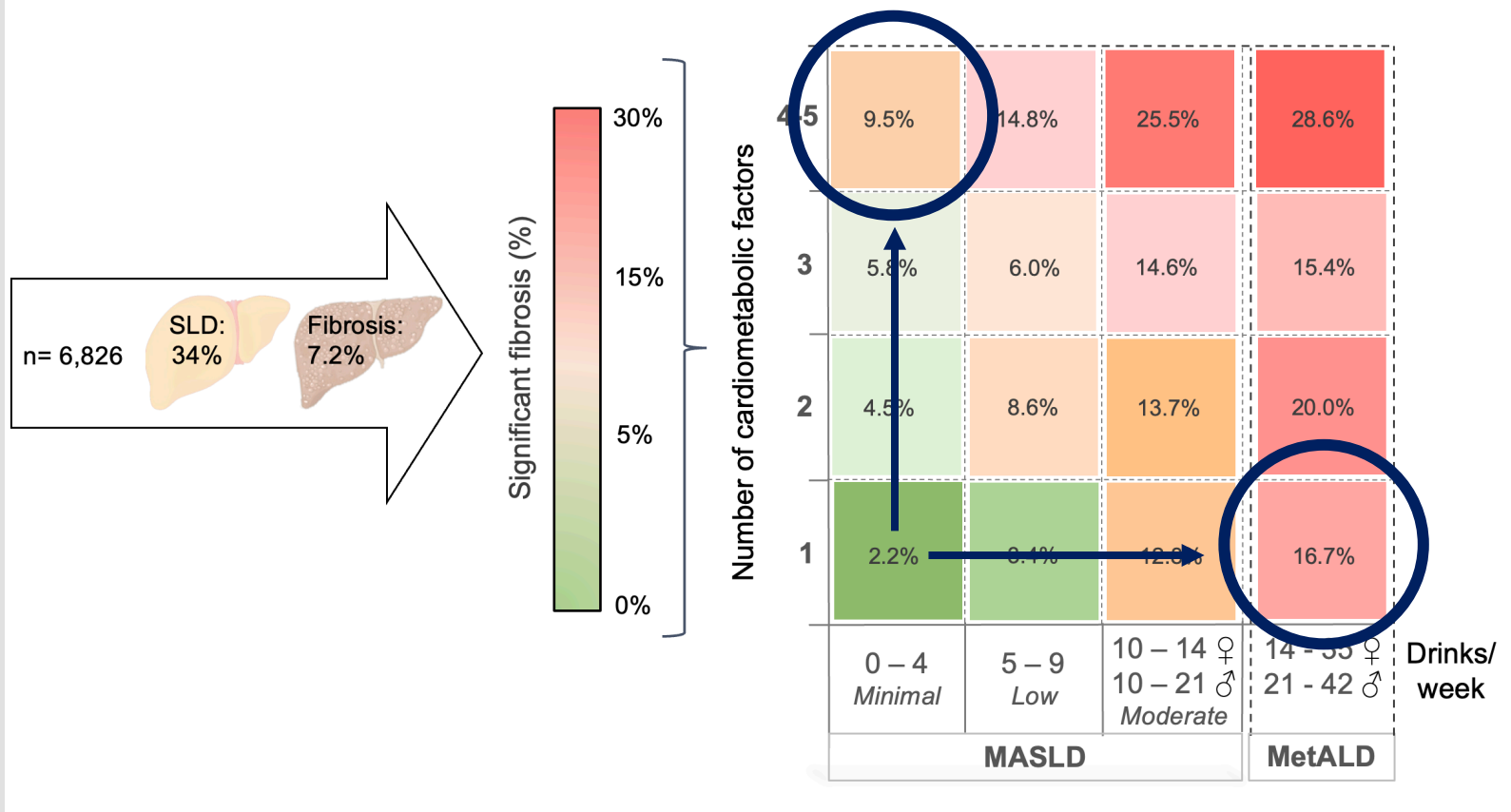
This article has an accompanying continuing medical education activity, also eligible for MOC credit on page e1529. Upon completion of this activity, successful learners will be able to identify high risk patients with a history of excessive alcohol use but without any symptoms of liver disease.



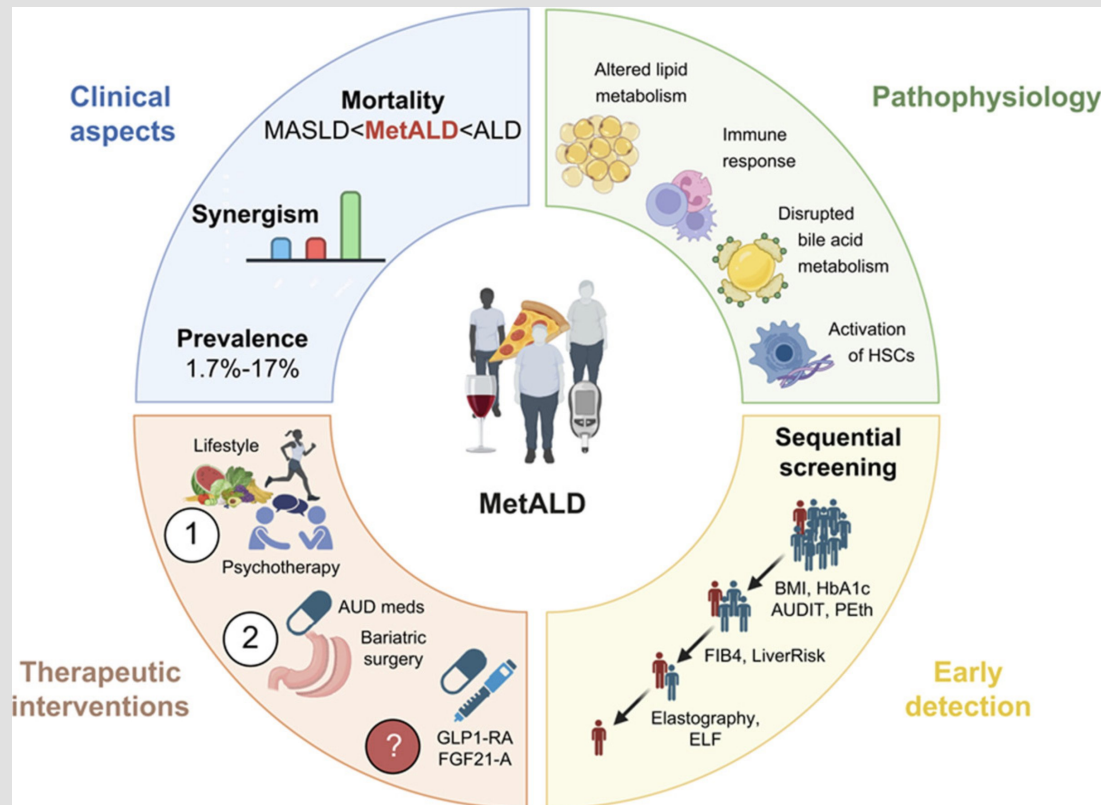
MetALD: A COMMON CONDITION THAT WAS OVERLOOKED



MetALD: EVEN LOW ALCOHOL INTAKE PROMOTES FIBROSIS



MetALD: PATHOPHYSIOLOGI AND CLINICAL ASPECTS



PRECISION-PERSONALIZED MEDICINE IN 3 SCENARIOS

1. Never decompensated ALD
2. Alcohol-associated hepatitis
3. Treatment of underlying alcohol use disorder

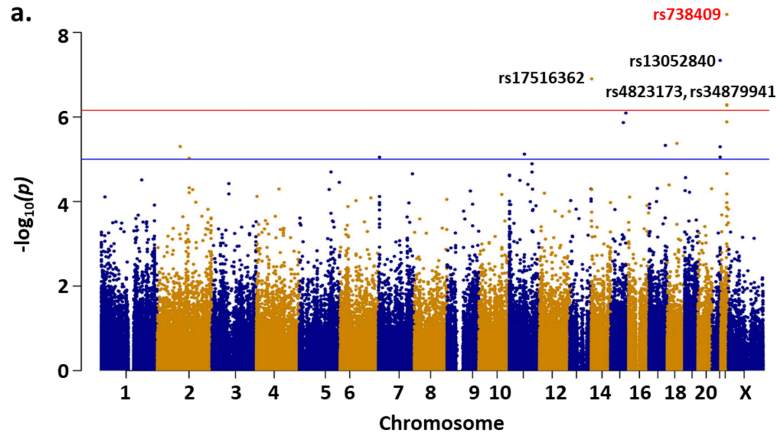
MAIN QUESTIONS IN ALCOHOL-ASSOCIATED HEPATITIS

1. *Why only a subset of patients **develop** AH ?*
2. *Can we predict **mortality** ?*
3. *Can we predict response to **corticosteroids** ?*
4. *Can we accurately select the best **candidates for early transplant** ?*

GENETIC FACTORS AND RISK OF AH DEVELOPMENT

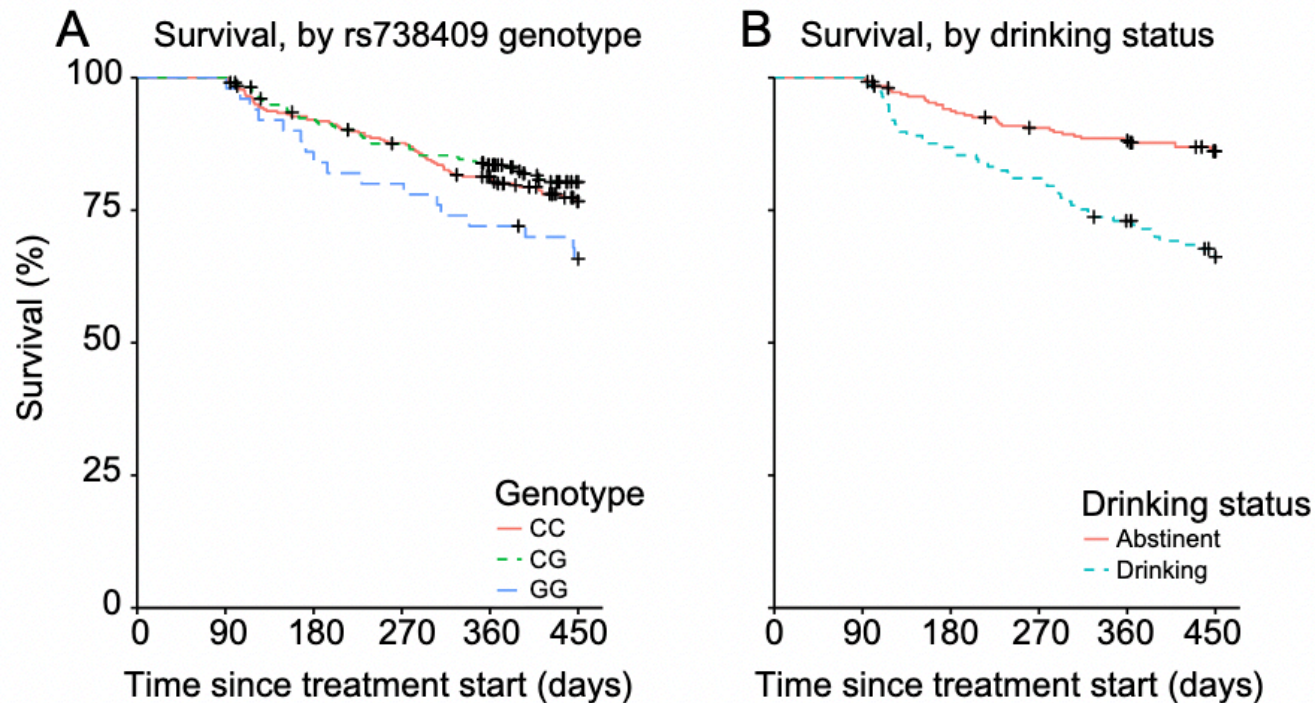
Exome-wide association analysis identifies novel risk loci for alcohol-associated hepatitis

Qiaoping Yuan¹, Colin Hodgkinson¹, Trina Norden-Krichmar⁴, Xiaochen Liu⁴, Bruce Barton³, Nancy Diazgranados², Melanie Schwandt², with DASH, InTEAM, SCAHC and TREAT consortia, Timothy Morgan⁵, Ramon Bataller⁶, Suthat Liangpunsakul³, Laura E. Nagy⁷, David Goldman^{1,2}, for the AH Genomics Consortia



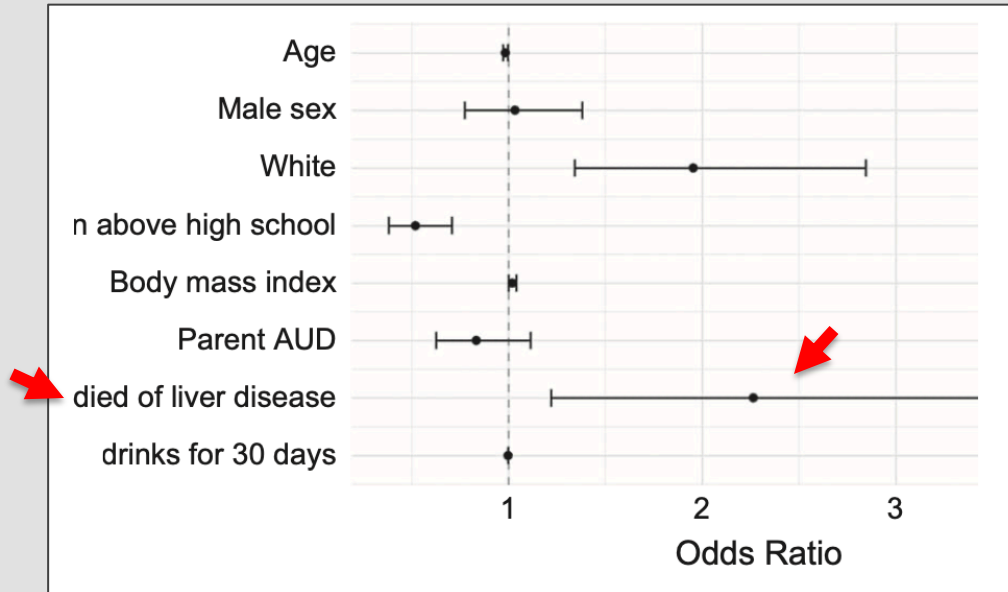
Gene	VEP	Snps	Chr-Pos-Ref-Alt	p-value	BETA	SE
<i>PNPLA3</i>	I148M	rs738409	chr22-44324727-C-G	3.75E-09	0.548	0.095
<i>ICOSLG</i>	Q329Q	rs13052840	chr21-45649848-T-C	4.59E-08	0.515	0.096
<i>TOX4</i>	5'-UTR	rs17516362	chr14-21944955-G-C	1.25E-07	-0.495	0.096
<i>PNPLA3</i>	intron	rs4823173	chr22-44328730-G-A	5.14E-07	0.499	0.102
<i>PNPLA3</i>	intron	rs34879941	chr22-44332878-C-T	5.30E-07	0.493	0.101
<i>MESPI</i>	intron	rs2305442	chr15-90293701-G-A	8.06E-07	0.479	0.100
<i>PNPLA3</i>	intron	rs2072906	chr22-44333172-A-G	1.31E-06	0.474	0.101
<i>ADAMTS7</i>	intron	rs3971703	chr15-79092481-G-C	1.36E-06	0.442	0.094
<i>SIGLEC15</i>	F273L	rs2919643	chr18-43419003-T-C	4.21E-06	-0.478	0.107
<i>SLC25A19</i>	intron	rs2306218	chr17-73282299-C-T	4.71E-06	0.423	0.095
<i>CREG2</i>	5'-UTR	rs116287156	chr2-102003962-T-C	5.00E-06	0.467	0.106
<i>CFAP410</i>	5'-UTR	rs73374031	chr21-45759197-G-C	5.07E-06	-0.438	0.099
<i>ADRBK1</i>	intron	rs10896164	chr11-67052466-G-A	7.57E-06	0.484	0.112
<i>CFAP410</i>	R11R	rs11870	chr21-45759045-C-T	8.89E-06	-0.426	0.099
<i>AP5Z1</i>	intron	rs3750012	chr7-4828593-T-C	8.94E-06	-0.551	0.128
<i>LRPIB</i>	intron	rs1429365	chr2-141747249-A-T	9.42E-06	-0.380	0.089

PNPAL3 VARIATIONS AND PROGNOSIS IN AH



Parental liver disease mortality is associated with unfavorable outcomes in patients with alcohol-associated hepatitis

Wanzhu Tu¹ | Samer Gawrieh¹ | Lauren Nephew¹ | Craig McClain² |
Qing Tang¹ | Srinivasan Dasarathy³ | Vatsalya Vatsalya² |
Douglas A. Simonetto⁴ | Carla Kettler¹ | Gyongyi Szabo⁵ | Bruce Barton⁶ |
Yunpeng Yu¹ | Patrick S. Kamath⁴ | Arun J. Sanyal⁷ | Laura Nagy³ |
Mack C. Mitchell⁸ | Suthat Liangpunsakul¹ | Vijay H. Shah⁴ | Naga Chalasani¹ |
Ramon Bataller⁹ | on behalf of the AlcHepNet Investigators



CORTICOSTEROID THERAPY IN SEVERE ALCOHOLIC HEPATITIS*

A Double-Blind Drug Trial

HENRIK P. PORTER, M.D., FRANCIS R. SIMON, M.D., CHARLES E. POPE, II, M.D.,
WADE VOLWILER, M.D., AND L. FREDERICK FENSTER, M.D.

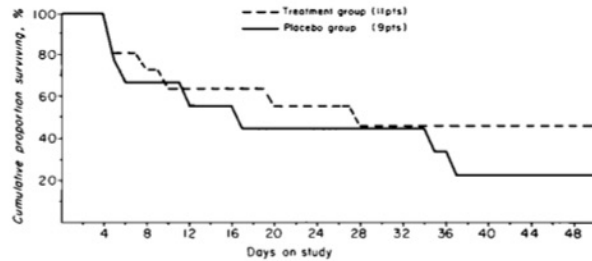
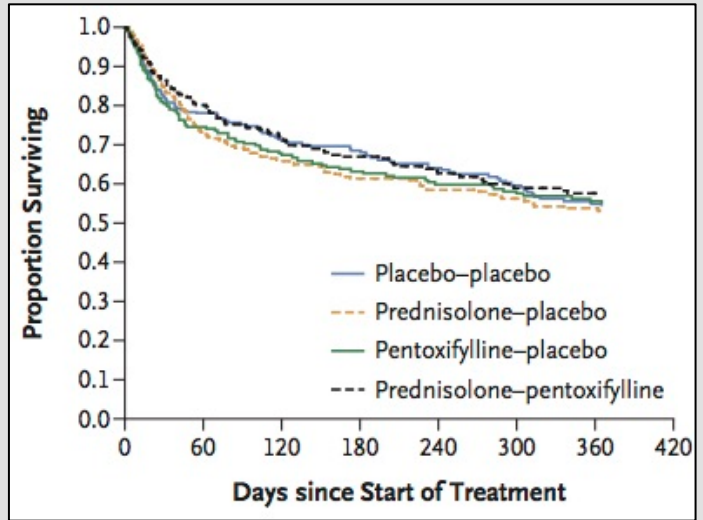


Figure 1. Plot of Life-Table Method of Survival.

1971

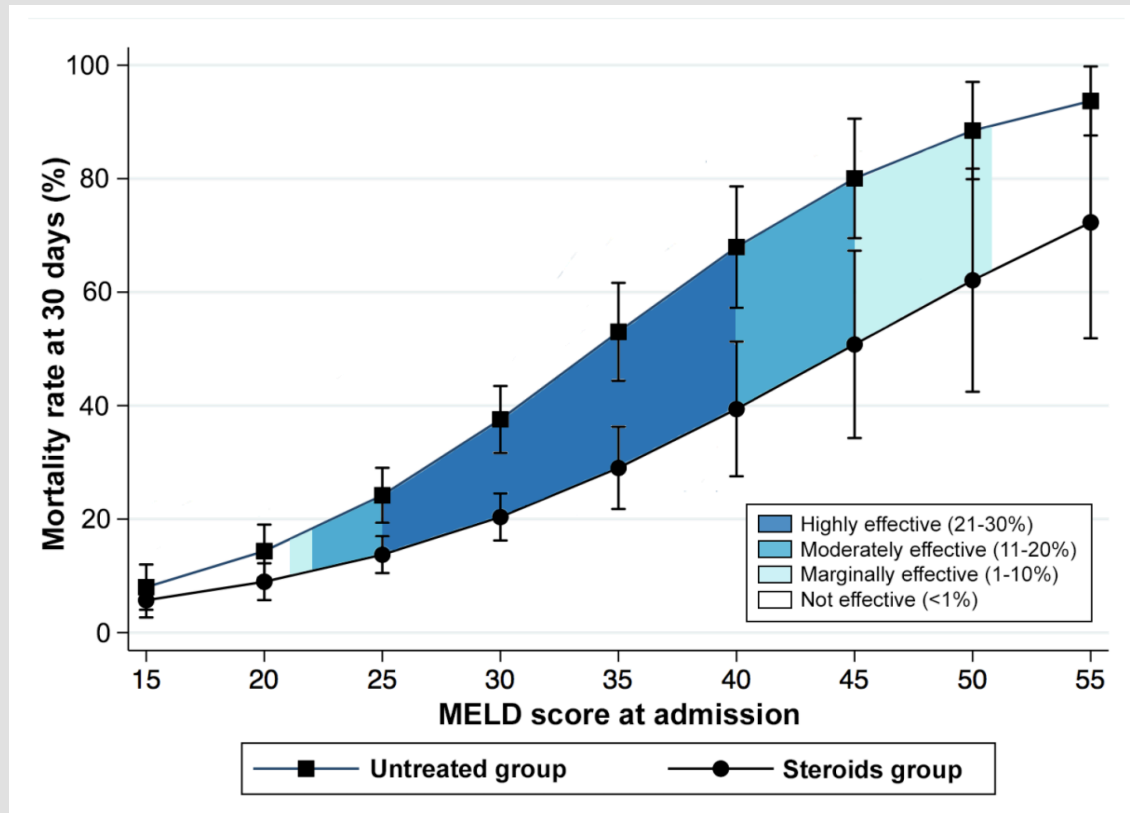
Prednisolone or Pentoxifylline for Alcoholic Hepatitis

Mark R. Thursz, M.D., Paul Richardson, M.D., Michael Allison, Ph.D.,
Andrew Austin, M.D., Megan Bowers, M.Sc., Christopher P. Day, M.D., Ph.D.,
Nichola Downs, P.G. Cert., Dermot Gleeson, M.D., Alastair MacGilchrist, M.D.,
Allister Grant, Ph.D., Steven Hood, M.D., Steven Masson, M.A., Anne McCune, M.D.,
Jane Mellor, M.Sc., John O'Grady, M.D., David Patch, M.D., Ian Ratcliffe, M.Sc.,
Paul Roderick, Ph.D., Louise Stanton, M.Sc., Nikhil Vergis, M.B., B.S., Mark Wright, Ph.D.,
Stephen Ryder, D.M., and Ewan H. Forrest, M.D., for the STOPAH Trial*

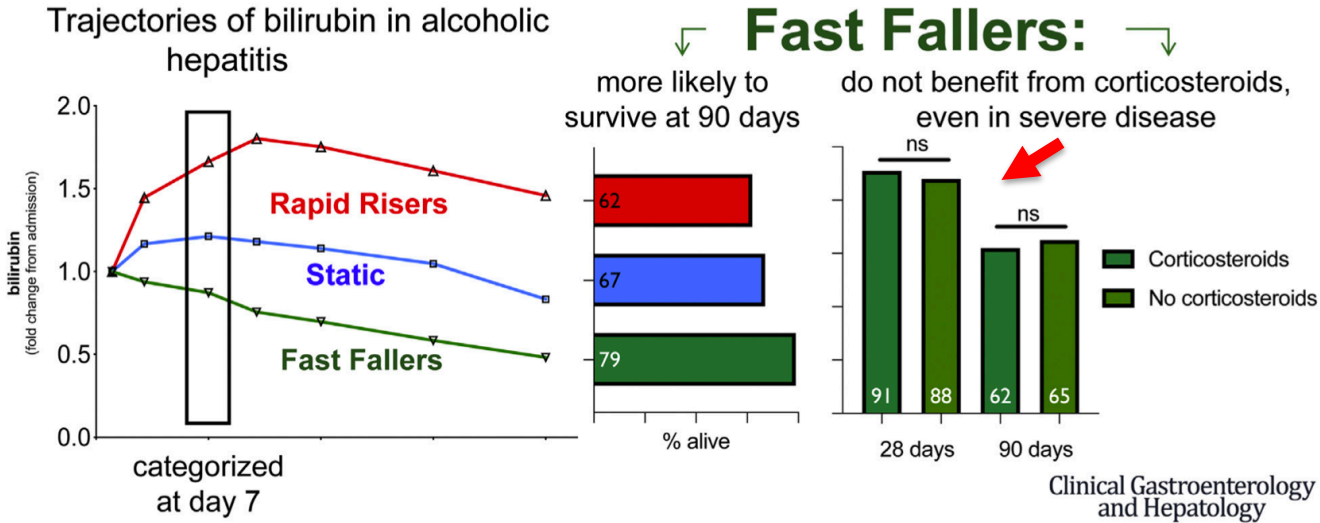


2015

THERAPEUTIC WINDOW FOR THE USE OF CORTICOSTEROIDS IN AH

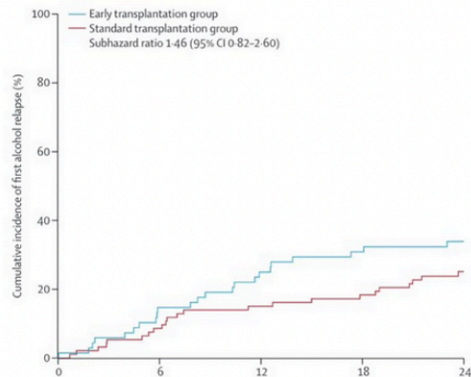


BILIRUBIN TRAJECTORY IN ALC HEP

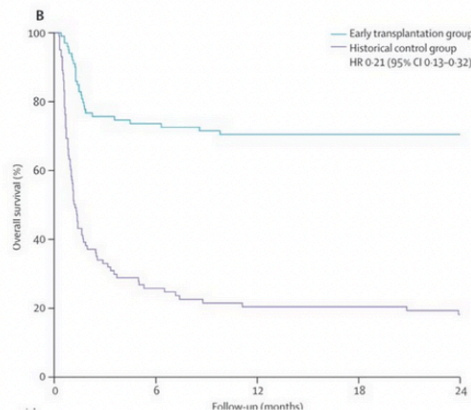


SELECTING THE BEST CANDIDATES FOR EARLY LIVER TRANSPLANT

ALCOHOL RELAPSE



SURVIVAL



MAIN SELECTION CRITERIA

- 1st episode AH
- No major psychiatric co-morbidities
- Reasonable alcohol insight
- Good family support
- No multiple rehab attempts
- Consensus of selection committee
- Use of scoring systems ??

PRECISION-PERSONALIZED MEDICINE IN 3 SCENARIOS

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PUBLIC POLICIES TO PREVENT ALD

nature reviews gastroenterology & hepatology

<https://doi.org/10.1038/s41575-025-01084-6>

Perspective

 Check for updates

Public health policies to prevent alcohol-related liver disease

Richard Parker¹, Juan P. Arab^{2,3}, Jeffrey V. Lazarus^{4,5}, Ramon Bataller⁶ & Ashwani K. Singal^{7,8,9}

Abstract

Sections



Ramon Bataller

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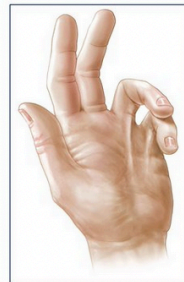
Can we detect chronic alcohol just using MEDICAL HISTORY and PHYSICAL EXAM? Of course ! This is my summary:

- ◆ Physical signs of alcohol use (Dupuytren)
- ◆ Multisystemic involvement (neuropathy)
- ◆ Associated conditions
- ◆ Periods of compensation and decompensation

[#livertwitter](#)

Medical history and physical exam to identify a chronic alcohol user

1. **SIGNS CHRONIC ALCOHOL USE:**
DUPUYTREN, RHYNOPHIMA, VASCULAR ECTASIA, FACIAL MALAR ERTHEMA, PAROTID HYPERTROPHY.
2. **MULTISYSTEMIC INVOLVEMENT:**
MALNOURISHMENT, SARCOPENIA, COGNITIVE IMPAIRMENT (FLAT AFFECT), PERIPHERAL NEUROPATHY.
3. **ASSOCIATED CONDITIONS:** CIGARETTE SMOKING, SOCIAL ISOLATION, FRACTURES.
4. **LIVER-RELATED DECOMPENSATION:**
ALTERNATE COMPESATED AND DECOMPENSATED PERIODS.



TREATING AUD IN A PATIENT-CENTERED MANNER

GENETIC-ENVIRONMENTAL FACTORS

Family history
Genetic risk
Other addictions

SOCIOECONOMIC FACTORS

Isolation
Stigma
Transportation
Insurance

COMMON ASSOCIATED CONDITIONS

PTSD
Sexual abuse
Depression
Anxiety
Sleep
Pain

MULTIDISCIPLINARY AUD CLINIC



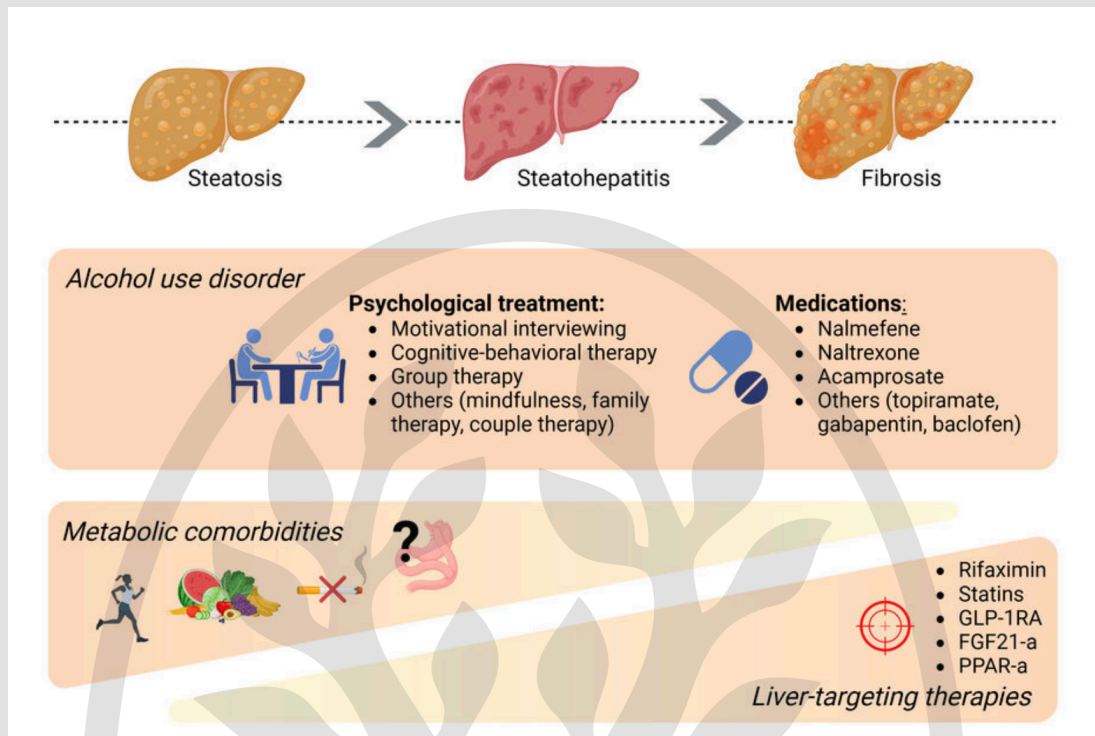
- *Specialized nurse*
- *Addiction therapist*
- *Social worker*
- *Financial counselor*
- *Hepatologist*

ROLE OF PHARMACOTHERAPY IN AUD IN LIVER PATIENTS

FDA approved for AUD

- **Disulfiram**: unsafe if significant fibrosis. Risk of liver failure.
- **Acamprosate**: observational studies suggest is safe and efficacious.
- **Naltrexone**: safe in compensated cirrhosis. Caution if opioid use.
- **Baclofen**: a positive placebo-control trial in cirrhosis. Anti-craving.

TREATING AUD IN ALCOHOL-RELATED LIVER DISEASE



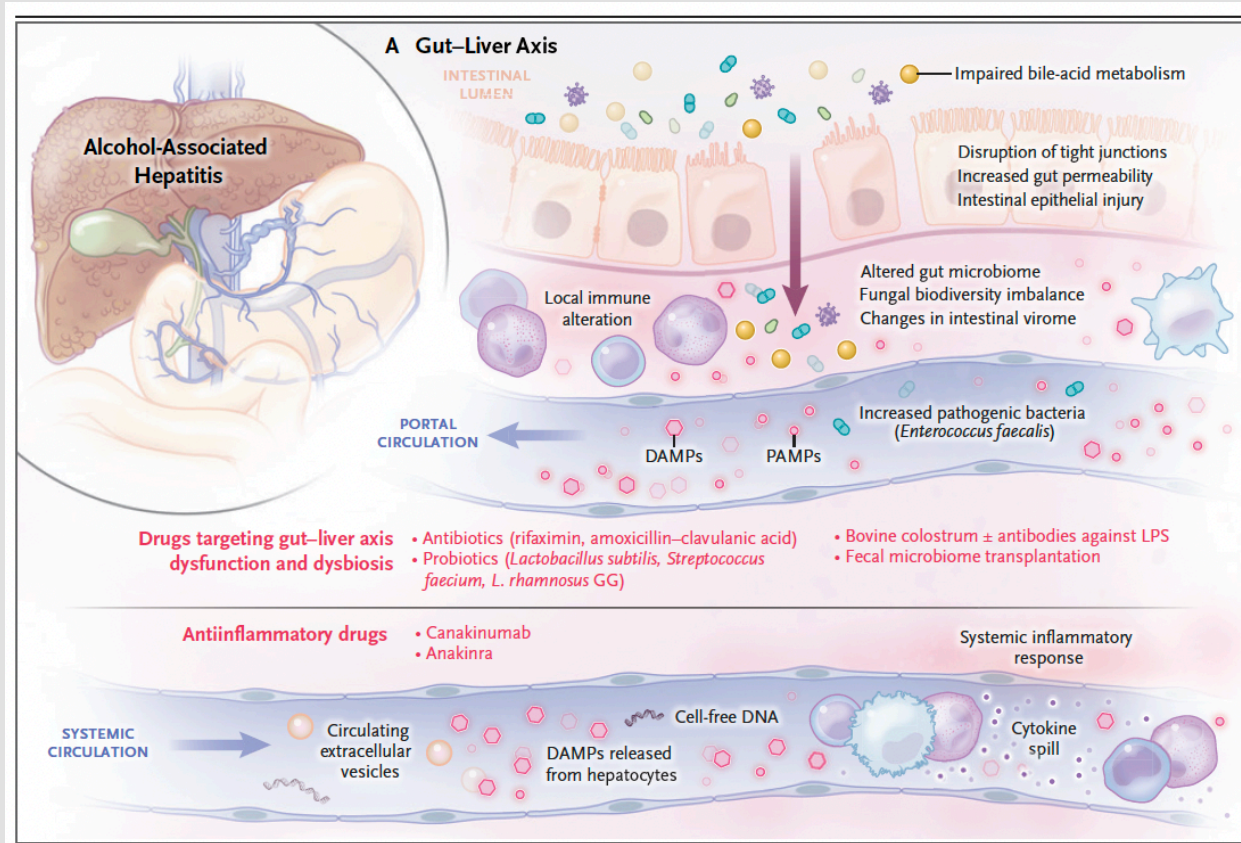
Seminars in Liver Disease

Diagnosis and management of early stages of ALD

Jordi Gratacós-Ginès, Edilmar Alvarado-Tapias, David Martí-Aguado, Hugo López-Pelayo, Ramon Bataller, Elisa Pose.

FMT is safe, improves short-term and medium-term survival, and leads to improvement in clinical severity scores in patients with SAH-ACLF.

PROMISING APPROACHES TO TREAT AUD: FMT



TAKE HOME MESSAGES

- Most patients with ALD are detected at late stages: early detection campaigns are needed.
- Corticosteroids improve 30-day survival in AH patients with MELD 21-39. Early Lille Score at 4 day could be applied.
- Early LT in highly selected patients with severe AH has good outcomes.
- There is a clear need to carry out clinical trials to treat alcohol use disorder in patients with ALD.



Ramon Bataller 
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Promote



I'm devastated by the news of the sudden passing of **Kristen Radage**.

She was our social worker that helped many patients with **alcohol use disorder** at UPMC. I'll never forget Kristen's kindness and compassion. She left a beautiful mark on every patient and colleague she met.

She participated in a recent [@EASLedu](#) studio on ALD and gave us useful advice. RIP.



In Memoriam, Kristen Radage, LCSW

