



# Liver Forum Project Updates

Katherine Barradas, MPH

Forum for Collaborative Research



## Agenda, Today



Session IV: Liver Forum Updates		
Liver Forum Project Updates	Katherine Barradas, Forum for Collaborative Research	
Introductory Remarks	Veronica Miller, Forum for Collaborative Research	
Liver Forum Co-Chairs	Arun Sanyal, Virginia Commonwealth University	
Session V: Biomarker Development		
Moderators: John Sninsky, Independent & Veronica	a Miller, Forum for Collaborative Research	
Opportunities in Biomarker Development	Christopher Leptak, U.S. Food and Drug Administration	
NASH Consortia Update		
• LITMUS	Quentin Anstee, Newcastle University	
• NIMBLE	Arun Sanyal, Virginia Commonwealth University	
	Panelists:	
	Quentin Anstee, Newcastle University	
	Julia Brosnan, LITMUS & Pfizer	
	Lara Dimick-Santos, U.S. Food and Drug Administration	
Panel Discussion	Elisabeth Erhardtsen, Nordic Bioscience	
Challenges and Opportunities	Céline Fournier, Echosens	
	Eric Huang, Glympse Bio	
	Christopher Leptak, U.S. Food and Drug Administration	
	Session IV: Liver Forum Updates Liver Forum Project Updates Introductory Remarks Liver Forum Co-Chairs Session V: Biomarker Development Moderators: John Sninsky, Independent & Veronical Opportunities in Biomarker Development  NASH Consortia Update  LITMUS  NIMBLE  Panel Discussion	

5:00 PM

**PSC Forum and Liver Forum Evening Reception** 



Arun Sanyal, Virginia Commonwealth University

Sudha Shankar, NIMBLE & AstraZeneca

## Agenda, Tomorrow, Abbreviated



8:30 AM	Session I: NASH Combination Therapy	
	Combination Approaches for NASH Patient Populations	
8:30 AM	Pre-Cirrhotic NASH	Brent Tetri, Saint Louis University
8:45 AM	Cirrhotic NASH	Julia Wattacheril, Columbia University
9:00 AM	Panel Discussion	
	Current Combination Strategies	
10:15 AM		
10:45 AM	Session II: NASH Regulatory Considerations	
10:45 AM	NASH Regulatory Update	Elmer Schabel, BfArM/ European Medicines Agency
		Yao-Yao Zhu, U.S. Food and Drug Administration
11:15 AM	Innovations in Trial Designs in NASH Clinical Research	Arun Sanyal, Virginia Commonwealth University
11.25 AM	Panel Discussion	
11:35 AM	Challenges & Potential Approaches	
1:00 PM		
2:00 PM	Session III: Parallel Breakout Sessions	
	NASH Cirrhosis Working Group	
	Pediatric Issues in NASH Working Group	
	Biomarker Development: Diagnostics	
3:30 PM	Break	
4:00 PM	Session IV: Reports and Wrap-Up	
4:00 PM	Reports from Breakout Sessions	
4:45 PM	Future Directions & Next Steps	
5:30 PM	Meeting Close	
		·



## **Options for Discussion**



### Microphones

- 1 mic per table
- Signal moderator
- Introduce self



### Submit Questions

- https://www.sli.do/
- Event Code: LF10

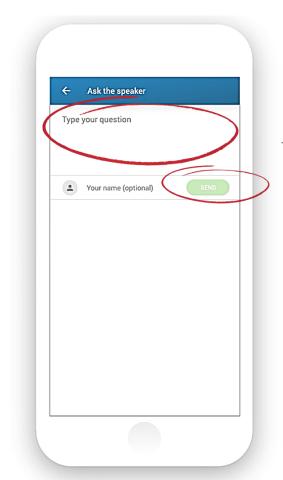






### How to use Sli.do

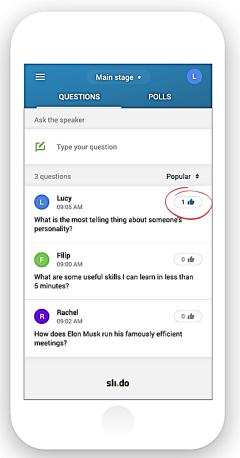




- 1. Go to www.slido.com
- 2. Enter event LF10



"Like" questions



### **Overview of the Liver Forum**

THE FORUM
For Collaborative Research

 What: a platform for <u>ongoing</u> multi-stakeholder dialogue to identify barriers, prioritize research and identify solutions to accelerate therapeutic development for NAFLD/NASH

- How: provide a neutral, independent, safe space for discussion and deliberation across stakeholder groups
  - Focus on developing consensus, increasing synergy and collaboration, and reducing duplication and uncertainty
  - Ongoing working group activity throughout the year anchored by larger project events
  - Active & engaged participation



## Rules of the Room



- Presentations, discussions, comments, and questions are not for attribution
  - Participants speak as individuals and express views that may not represent those of their organizations
  - Social Media:
    - Quotes of speakers/panelists/audience
    - Detailing meeting proceedings
    - Photos during receptions
    - Referencing attendance
    - Interactions during breaks









## **Steering Committee**



Veronica Miller Forum for Collaborative Research **Co-Chairs** Arun Sanyal, VCU Laurent Fischer, Allergan Lara Dimick, FDA/CDER/DGIEP Ruby Mehta, FDA/CDER/DGIEP Regulatory Chris Leptak, FDA/CDER/OND Elmer Schabel, EMA/BfArM William Baldyga
Patient Representative Patient Advocates Donna Cryer, Global Liver Institute Quentin Anstee, LITMUS Consortia Sudha Shankar, NIMBLE

Scott Friedman, Mount Sinai Miriam Vos, *Emory University* **Academia** Vlad Ratziu, Hôpital Pitié Salpêtrière Detlef Schuppan, Mainz University Brent Tetri, Saint Louis University Naga Chalasani, AASLD **Society** Annalisa Berzigotti, EASL Margery Connelly, LabCorp Judith Ertle, Boehringer Ingelheim **Industry** Céline Fournier, Echosens Rob Myers, Gilead David Shapiro, *Intercept* 



## **Recent Activities & Accomplishments**



### Submitted: Responses to Regulatory Guidance Documents

- EMA reflection paper "Regulatory Requirements for the Development of Medicinal Products for Chronic Non-Infectious Liver Diseases (PBC, PSC, NASH)"
- FDA draft guidance "Nonalcoholic Steatohepatitis with Compensated Cirrhosis: Developing Drugs for Treatment"

### Submitted: Standard of Care Lifestyle Manuscript

Standardization of Diet and Exercise in Clinical Trials of NAFLD-NASH: Recommendations from the Liver Forum

Oliver Glass, Claudia Filozof, Mazen Noureddin, Mark Berner-Hansen, Elmer Schabel, Katherine Barradas, Jörn M. Schattenberg, Veronica Miller, Sven Francque, Manal F. Abdelmalek, for the Liver Forum Standard of Care Working Group

Submitted to Journal of Hepatology



## Recent Activities & Accomplishments



## Pediatric Issues Working Group Manuscript #1

Factors to Consider in Development of Drugs for Pediatric Nonalcoholic Fatty Liver Disease

Miriam B. Vos, Lara Dimick-Santos, Ruby Mehta, Stephanie O. Omokaro, Johannes Taminiau, Elmer Schabel, David E. Kleiner, Peter Szitanyi, Piotr Socha, Jeffrey B. Schwimmer, Stephanie Noviello, Debra G. Silberg, Richard Torstenson, Veronica Miller, Joel E. Lavine, on behalf of the Liver Forum Pediatric Issues Working Group

#### **Accepted at Gastroenterology**

https://doi.org/10.1053/j.gastro.2019.08.048

Tentatively scheduled for December 2019 issue



## **Working Group Details**



Working Group	Chairs	Status
Data Standardization	Joanne Imperial & Andrew Muir	Completed
Case Definitions	Stephen Harrison & Sophie Megnien	Completed
Standard of Care: Lifestyle	Manal Abdelmalek, Sven Francque	To be Assessed
Estimands in NASH	Peter Mesenbrink & Veronica Miller	<b>Active/ Closed</b>
<b>Standard of Care: Comorbidities</b>	Raluca Pais & Vlad Ratziu	Active/ Open
Pediatric Issues	Joel Lavine & Miriam Vos	Active/ Open
NASH Cirrhosis	Naga Chalasani, Jean Chan, & Arun Sanyal	Active/ Open

All **ACTIVE/ OPEN** working groups welcome additional members!

To join, email me at kgreene@forumresearch.org



## **Liver Forum Manuscript Status**



Working Group	Title	Status
Data Standardization	Baseline Parameters in Clinical Trials for Nonalcoholic Steatohepatitis: Recommendations From the Liver Forum	Published https://doi.org/10.1053/ j.gastro.2017.07.024
Case Definitions	Case Definitions for Inclusion and Analysis of Endpoints in Clinical Trials for Nonalcoholic Steatohepatitis Through the Lens of Regulatory Science	Published <a href="https://doi.org/10.1002/">https://doi.org/10.1002/</a> <a href="https://doi.org/10.1002/">hep.29607</a>
Case Definitions	Defining Improvement in Nonalcoholic Steatohepatitis for Treatment Trial Endpoints: Recommendations from the Liver Forum	Accepted <a href="https://doi.org/10.1002/">https://doi.org/10.1002/</a> <a href="https://doi.org/10.1002/">hep.30672</a>
Pediatric Issues	Factors to Consider in Development of Drugs for Pediatric Nonalcoholic Fatty Liver Disease	Accepted <a href="https://doi.org/10.1053/j.gastro.2019.08.048">https://doi.org/10.1053/j.gastro.2019.08.048</a>
Standard of Care	Standardization of Diet and Exercise in Clinical Trials of NAFLD-NASH: Recommendations from the Liver Forum	Submitted
Standard of Care	Management of Comorbidities in NAFLD Clinical Trials	Under Development
NASH Cirrhosis	Attribution of NASH as an Etiology of Cirrhosis for Clinical Trials Eligibility: Recommendations from the Liver Forum	Under FDA Review



### Diamond Sponsors







The following sponsors contribute at their assigned membership levels













































The following sponsors contribute at their assigned membership levels













































#### The following sponsors contribute at their assigned membership levels

































## **THANK YOU!**



### The Forum for Collaborative Research

### **Executive Director**: Veronica Miller

- Jessica Weber
- Brenda Rodriguez
- Luis Javier Hernandez
- Terry Daniels
- Vin Keane

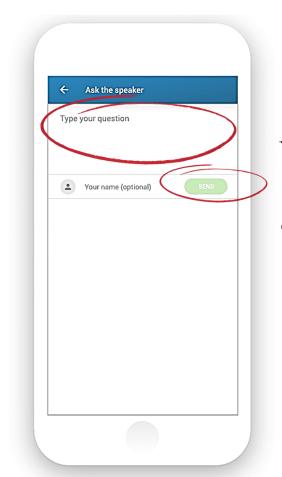
## **Prism Event Management**

- Paula Blay
- Mairead O'Reilly
- Sarah Matthews
- Avery Jones



### Sli.do Reminder





- 1. Go to www.slido.com
- 2. Enter event LF10



"Like" questions

