



ISHEN 20.23

GERMANY | Bad Zwischenahn

_____ 27-29 September 2023

SYMPOSIUM



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PROGRAM

GENERAL INFORMATION

CONGRESS VENUE

Wandelhalle, Auf dem Hohen Ufer 24,
26160 Bad Zwischenahn

CONGRESS ORGANIZATION

This meeting is organized by
B4C Solutions, Breslauer Straße 40,
D-82194 Gröbenzell

Ms. Diana Heidenberger
heidenberger@b4c-solutions.de

Following the event, all queries should
be directed to the ISHEN Administration
office.

OFFICIAL LANGUAGE

The official language of the conference
is English.

REGISTRATION

Registration fee is € 125,00 per day.

Registration for personal attendance via
www.ishen.org

ACCOMMODATION

Block hotel bookings have been made.
For vacancies please inquire at the
following hotels:

HansenS Haus am Meer,
Auf dem Hohen Ufer 25, 26160 Bad
Zwischenahn, Tel. (0049) 4403 9400

Seehotel Fährhaus,
Auf dem Hohen Ufer 8, 26160 Bad
Zwischenahn, Tel. (0049) 4403 6000

Hotel Kämper,
Georgstraße 12, 26160 Bad
Zwischenahn, Tel. (0049) 4403 9260

Information about further hotels and
holiday lets can be obtained at the
tourist information.

TOURIST INFORMATION

Tourist Information Bad Zwischenahn:
Touristik-Service am Meer, Auf dem
Hohen Ufer 24, 26160 Bad
Zwischenahn, Germany

Tel. (0049) 4403 619 159
info@bad-zwischenahn-touristik.de

LOCAL ORGANIZATION COMMITTEE

Karin Weissenborn (ISHEN president)
Meike Dirks
Department of Neurology



Hannover Medical School

Hannover Medical School,
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WEDNESDAY SEPTEMBER 27TH 2023

09:30 a.m. **Welcome Address**

09:40 – 12:00

SESSION I

BLOOD BRAIN BARRIER, GLYPHATIC SYSTEM – AND HE

Chair: Chris Rose (CDN-Montréal), Karin Weissenborn (D-Hannover)

09:40 – 10:05

Blood Brain Barrier – Architecture and Function

Stefan Liebner (D-Frankfurt)

10:05 – 10:25

Blood Brain Barrier in HE

Nicolas Weiss (F-Paris)

10:25 – 10:50

The Glymphatic System

Iben Lundgaard (SE-Lund)

10:50 – 11:10

The Glymphatic System and HE

Anna Hadjihambi (GB-London)

Short Presentations:

11:10 – 11:22

Gut Dysbiosis in Hyperammonemic Mice and Motor Incoordination: A New Discernment of the Gut-Brain Axis in Hepatic Encephalopathy

Aimrane Abdelmohcine, Souad El Amine, Soraia El Baz, Bilal El Mansoury, Karima Lafhal, Naima Fdil, Omar El Hiba (MA-El Jadida, MA-Marrakech)

11:22 – 11:34

Plasma Neurofilament Light Chain as a Novel Potential Biomarker for the Stratification and Risk Profiling of Hepatic Encephalopathy in Cirrhosis

Marilena Stamouli, Christos Konstantinou, Dhaarica Jeyanesan, Jack Wright, Zoe Elliott, Siva Dwarampudi, Ane Zamalloa, Neil Youngson, Vishal C. Patel*, Anna Hadjihambi* (GB-London)

11:34 – 11:46

Alcohol Aggravates Neurological Dysfunction and Leads to Permanent Cell Injury in Rats with Chronic Liver Disease

Farzaneh Tamnanloo, Xiaoru Chen, Mariana M. Oliveira, Mélanie Tremblay, Chris Rose (CDN-Montréal)

WEDNESDAY SEPTEMBER 27TH 2023

11:46 – 11:58 **Cognitive Impairment Associated with Cortical and Hippocampal Microglia Activation and Altered Synaptic Function in a Rat Model of Chronic Hepatic Encephalopathy**
 B. El-Mansoury, A. El Khat, K. Smimih, A. Aimrane, A. Draoui, A. Ferssiwi, A. Bitar, A. R. Jayakumar, O. El Hiba (MA-El Jadida, MA-Marrakech, USA-Miami)

12:00 – 13:30 **Lunch Break**

13:30 – 14:45

SESSION II

INFECTION, INFLAMMATION AND HE

Chair: Heiner Wedemayer (D-Hannover), Rajiv Jalan (GB-London)

13:30 – 13:55 **Pathophysiological View**
 Vicente Felipo (E-Valencia)

13:55 – 14:20 **Clinical view**
 Debbie Shawcross (GB-London)

14:20 – 14:32 **Short Presentations:**
Altered Locomotor Behavior Associated with Purkinje Cells and Astrocytes Dysfunctions in Rat with Acute Hepatic Encephalopathy Involving the Oxidative Stress and Neuroinflammation
 Abdelaati El Khat, Bilal El-Mansoury, Omar El Hibac, Lahcen Tamegart, Hanane Rais, Naima Fdil, Souad Sellami, Mohamed Ait El Mokhtarh, Najib Kissani, Halima Gamrani (MA-El Jadida, MA-Marrakech, MA-Tetouan)

14:32 – 14:44 **A Precipitating Factor of Hepatic Encephalopathy is always Found in Cirrhotic Patients Admitted to Intensive Care Units for Hepatic Encephalopathy**
 Marie de Matharel, Philippe Sultanik, Charlotte Bouzbib, Sarah Mouri, Nicolas Weiss, Lyes Kheloufi, Dominique Thabut, Marika Rudler (F-Paris)

14:44 – 16:30 **Coffee Break**
 Guided Walk through Bad Zwischenahn

16:30 – 18:06

SESSION III

AMMONIA – STILL OF RELEVANCE?

Chair: Roger Butterworth (CDN-Montréal), Peter Ott (DK-Aarhus)

16:30 – 16:50

Influencing Factors of Ammonia Metabolism in Patients with Liver Disease

M. Romero-Gomez (E-Sevilla)

16:50 – 17:10

Ammonia Toxicity Beyond the Brain

Chris Rose (CDN-Montréal)

17:10 – 17:30

Pros and Cons of Ammonia Measurement in Clinical Practice?

Rajiv Jalan (GB-London)

Short Presentations:

17:30 – 17:42

Whole-Body Clearance and Production of Ammonia Quantified by Constant Ammonia Infusion – the Effects of Cirrhosis and Ammonia Targeting Treatment

Peter Lykke Eriksen, Lars Djernes, Hendrik Vilstrup, Peter Ott (DK-Aarhus)

17:42 – 17:54

Implication of Hyperuricemia in Metabolic-Associated Hepatic Encephalopathy: Looking beyond Ammonia

Sydnée L'Écuyer, Maximilian Steger, Farzaneh Tamnanloo, Mariana Oliveira, Isaac Ruiz, Mélanie Tremblay, Emmanuel Charbonney, Chris Rose (CDN-Montréal)

17:54 – 18:06

Multiple Ammonia-induced Episodes of Hepatic Encephalopathy Provoke Neuronal Cell Loss in Bile-Duct Ligated Rats

Farzaneh Tamnanloo, Rafael Ochoa-Sanchez, Mariana M. Oliveira, Mélanie Tremblay, Chris Rose (CDN-Montréal)

18:30 – 20:00

POSTER SESSION → SEE P. 13

Chair: Piero Amodio (I-Padova), Benjamin Maasoumy (D-Hannover), Michael Sorensen (DK-Aarhus), Sharon DeMorrow (USA- Austin)

20:00

Dinner at „HansenS Haus am Meer“

Auf dem Hohen Ufer 25, Bad Zwischenahn

08:30 – 10:45	SESSION IV APPROACHES TO UNDERSTAND THE PATHOPHYSIOLOGY OF HE <i>Chair: Vicente Felipo (E-Valencia), Christina Cudalbu (CH-Lausanne)</i>
08:30 – 08:50	Energy Metabolism in HE: Impairment or Failure? Michael Sorensen (DK-Aarhus)
08:50 – 09:02	Short Presentation: New Insights into Brain Energy Metabolism in Type C Hepatic Encephalopathy: A Dual 18F-FDG PET and 9.4T 1H MRS Preclinical Study Jessie Moss, Ting Yin, Carole Poitry-Yamate, Dunja Simicic, Mario Lepore, Valérie A. McLin, Olivier Braissant, Cristina Cudalbu, Bernard Lanz (CH-Lausanne, CH-Geneva)
09:02 – 09:27	Extracellular Vesicles – their Role for Normal Brain Function Eva-Maria Krämer-Albers (D-Mainz)
09:27 – 09:47	Extracellular Vesicles – Possible Biomarkers and Mediators of HE or Even Targets or Means for New Therapies of HE? Carmina Montoliu (E-Valencia)
09:47 – 10:12	Possible Role of Cerebral Organoids for HE Research Sophie Scholz (D-Berlin)
10:12 – 10:32	Experimental Models of HE – a Critical Review Sharon DeMorrow (USA-Austin, TX)
10:32 – 10:44	Short Presentation: Murine Hepatitis Virus-1 Mouse Model to Study Hepatic Encephalopathy Arumugam R. Jayakumar, Hussain Hussain, Rajalakshmi Ramamoorthy, Andrew D. Masciarella, Dibe M. Di Gregorio, Michael J. Paidas (USA-Miami, FL)
10:45 – 11:10	Coffee Break

11:10 – 12:15

SESSION V DIAGNOSIS OF HE

Chair: Marsha Morgan (GB-London), Sara Montagnese (I-Padova)

11:10 – 11:35

Critical Evaluation of the Currently Used Methods for Diagnosing HE

C. Labenz (D-Mainz)

Short Presentations:

11:35 – 11:47

HE Audio Recording to Detect Minimal Hepatic Encephalopathy ("HEAR-MHE") Study: Speech Identifies Minimal Hepatic Encephalopathy

Patricia P. Bloom, Caitlyn Fisher, Nazokat Otajonova, Luis Garrido, Aran Farrell, Jessica Robin, Sumeet Asrani, Anna S. Lok (USA-Ann Arbor, MI, USA-Dallas, TX, CDN-Toronto)

11:47 – 11:59

Diagnosing Minimal Hepatic Encephalopathy: Comparison of Six Frequently Used Tests

Alena F. Ehrenbauer, Maria M. Gabriel, Julius F. M. Egge, Anja Tiede, Meike Dirks, Heiner Wedemeyer, Benjamin Maasoumy, Karin Weissenborn (D-Hannover)

11:59 – 12:11

Impact of Alcoholic Etiology of Liver Cirrhosis upon mHE Diagnostics

Julius F. M. Egge, Alena F. Ehrenbauer, Maria M. Gabriel, Jana Al-Ayoubi, Lea S. Wagner, Jim B. Mauz, Anja Tiede, Heiner Wedemeyer, Benjamin Maasoumy, Karin Weissenborn (D-Hannover)

12:15 – 13:30

Lunch Break

13:30 – 15:20

SESSION VI, PART A RISK FACTORS, PROPHYLAXIS AND THERAPY OF HE

Chair: Dominique Thabut (F-Paris), Jasmohan Bajaj (USA-Richmond)

13:30 – 13:55

Risk Factors for the Development of HE

Manuela Merli (I-Rome)

THURSDAY SEPTEMBER 28TH 2023

Short Presentations

13:55 – 14:07

A Validation of the Bilirubin-Albumin-Betablocker-Statin Score to Predict the Development of Hepatic Encephalopathy in Patients with Liver Cirrhosis

Elise Jonasson, Nadja Østberg, Simon Johannes Gairing, Eva Maria Schleicher, Peter Robert Galle, Christian Labenz, Mette Munk Lauridsen (DK-Esbjerg, DK-Aarhus, USA-Miami, FL)

14:07 – 14:19

Development of Overt Hepatic Encephalopathy is Associated with an Abruptly Increased Risk of Death in Patients Hospitalized with an Acute Decompensation or Acute-on-Chronic Liver Failure

Maria Pilar Ballester, Juan Antonio Carbonell-Asins, Shalimar, Rajiv Jalan (E-Valencia, E-Barcelona, IND-New Delhi, GB-London)

14:19 – 14:39

Prophylaxis of HE: Current Standards and Developments

Aldo Torre (MEX-Mexico City)

14:39 – 14:59

Therapy of HE: Current Standards and Developments

Radha Dhiman (IND-Lucknow)

14:59 – 15:19

Patterns of Care and their Effect upon the Prognosis of Patients with HE

Elliot Tapper (USA-Ann Arbor, MI)

15:20 – 15:45

Coffee Break

15:45 – 16:21

SESSION VI, PART B

RISK FACTORS, PROPHYLAXIS AND THERAPY OF HE

Chair: Aldo Torre (MEX-Mexico City), Benjamin Maasoumy (D-Hannover)

15:45 – 15:57

Short Presentations:

Plant-Based Meals Generate Lower Ammonia and Have a Unique Metabolomic Signature Compared to Meat-Based Meals Despite Similar Baseline Microbiome In Patients With Cirrhosis: A Randomized Clinical Trial

Bryan Badal, Andrew Fagan, Victoria Tate, Travis Mousel, Mary Leslie Gallagher, Puneet Puri, Brian Davis, Jennifer Miller, Masoumeh Sikaroodi, Patrick Gillevet, Leroy Thacker, Jasmohan Bajaj (USA-Richmond, FX)

- 15:57 – 16:09 **Endoscopic Ultrasound Guided Transgastric Shunt Occlusion (ETSO) – a Novel Method of Shunt Occlusion for Recurrent Hepatic Encephalopathy**
Sahaj Rathi, Amrita Kalantri, Arpit Shastri, Ritu Shree, Karthik Vinay Mahesh, Sunil Taneja, Sreedhara BC, Harish Bhujade, Nipun Verma, Madhumita Premkumar, Arka De, Naveen Kalra, Virendra Singh, Ajay Duseja (IND-Chandigarh)
- 16:09 – 16:21 **Neurological Dysfunction is Improved after Faecal Microbiota Transplantation in Rats with Bile Duct Ligated-Induced Chronic Liver Disease**
Alexandre Bourgeois, Félix Veillette, Mariana Oliveira, Karine Dubois, Mélanie Tremblay, Chantal Bémeur, Chris Rose (CDN-Montréal)

16:30 – 17:30 ANDY BLEI LECTURE:
„DOWN THE ROAD TOWARDS HE“
Chair: Karin Weissenborn (D-Hannover), Chris Rose (CDN-Montréal)

- The Workhorse Ureagenesis**
Hendrik Vilstrup (DK-Aarhus)
- The Elusive Ammonia**
Peter Ott (DK-Aarhus)
- 17:45 **General Assembly of ISHEN members**
- 19:15 **Traditional ISHEN soccer game**
- 20:15 **Poster Awards**
Barbecue, Music,
at the Restaurant “Ahrenshof”
Burgweg 7, 26160 Bad Zwischenahn

FRIDAY SEPTEMBER 29TH 2023

09:00 – 11:00

SESSION VII

HE IN CHILDREN VERSUS ADULTS

Chair: Heiner Wedemeyer (D-Hannover), Valerie McLin (CH-Geneva)

09:00 – 09:25

Urea Cycle Defects: Genetically Encoded Hepatic Metabolic Disorders with a Potential for Encephalopathy

A. M. Das (D-Hannover)

09:25 – 10:35

Round table: Similarities and Differences of HE Between Children and Adults

Moderation: Heiner Wedemeyer (D-Hannover)

and Valerie McLin (CH-Geneva)

Discussants: William Bernal (GB-London), Akash Deep (GB-London), Sara Montagnese (I-Padova), Anshu Srivastava (IND-Lucknow)

10:35 – 10:47

Short Presentations:

Age Dependence of Neurometabolic Changes in a Rat Pup Model of Type C Hepatic Encephalopathy

Dunja Simicic, Veronika Rackayova, Olivier Braissant, Christian Toso, Graziano Oldani, Dario Sessa, Valérie McLin, Cristina Cudalbu (CH-Lausanne, CH-Geneva)

10:47 – 10:59

Brain Regional Differences in the Developing Brain Using an Animal Model of Type C Hepatic Encephalopathy

D. Simicic, K. Pierzchala, O. Braissant, S. Mitrea, D. Sessa, V. McLin, C. Cudalbu (CH-Lausanne, CH-Geneva)

11:00 – 11:20

Coffee Break

11:20 – 12:25 UHR

SESSION VIII, PART A

ETIOLOGIES OF LIVER DISEASE

AND RISK OF ENCEPHALOPATHY

Chair: Manuel Romero-Gomez (E-Sevilla), Radha Dhiman (IND-Lucknow)

Encephalopathy in Patients and Experimental Animals with NASH/NAFLD

11:20 – 11:40

Experimental Data: Anna Hadjihambi (GB-London)

11:40 – 12:00

Clinical Data: Karen Thomsen (DK-Aarhus)

12:00 – 12:25 **Encephalopathy in Portal Hypertension without Liver Cirrhosis**

Shiv Kumar Sarin (IND-New Delhi)

12:30 – 14:00 **Lunch Break**

14:00 – 14:36 UHR SESSION VIII, PART B

ETIOLOGIES OF LIVER DISEASE AND RISK OF ENCEPHALOPATHY

Chair: Shiv Kumar Sarin (IND-New Delhi), Manuela Merli (I-Rome)

Short Presentations:

14:00 – 14:12 **Gut-Derived Brain Inflammation and Cognitive Impairment in NAFLD is not Reversed by Low-Fat Diet**

Matthew Siddle, Christos Konstantinou, Stijn Aaron den Daas, Rajiv Jalan, Nathan Davies, Lindsey Edwards, Debbie Shawcross*, Anna Hadjihambi* (GB-London)

14:12 – 14:24 **Effects of Dietary Interventions on Cognitive Function and Brain Inflammation in Aged Mice with Non-Alcoholic Fatty Liver Disease**

Deepika Goel, Christos Konstantinou, Rajiv Jalan, Nathan Davies, Anna Hadjihambi (GB-London)

14:24 – 14:36 **Semaglutide Reduces Cognitive Dysfunction in Experimental Non-alcoholic Steatohepatitis through Anti-inflammatory and Neuroprotective Effects**

Kristoffer Kjærgaard, Anne Catrine Daugaard Mikkelsen, Cecilie Bay-Richter, Anne M. Landau, Peter Lykke Eriksen, Betina Elfving, Farzaneh Tamnaloo, Jeppe Remme Yeoman, Stephen Dutoit-Hamilton, Chris Rose, Hendrik Vilstrup, Rajeshwar Prosad Mookerjee, Karen Louise Thomsen (DK-Aarhus, GB-London)

14:40 – 15:42 SESSION IX

HE AND LIVER TRANSPLANTATION

Chair: Nicolas Weiss (F-Paris), N.N.

14:40 – 15:05 **HE as Indication or Contraindication for Liver Transplantation**

J. Bajaj (USA-Richmond)

FRIDAY SEPTEMBER 29TH 2023

15:05 – 15:30	Reversibility of Structural and Functional Alterations of HE Henning Pflugrad (D-Hannover)
15:30 – 15:42	Short Presentation: Characterization of Metabolomic Fingerprints in Patients with Hepatic Encephalopathy and Fulminant Hepatitis or Acute Decompensation of Cirrhosis, before and after Liver Transplantation Kieran Pinceaux, Florence Castelli, François Fenaille, Christophe Junot, Sarah Mouri, Valentin Coirier, Baptiste Giguët, Christophe Camus, Jean Marc Tadié, Édouard Bardou-Jacquet, Pauline Houssel-Debry, Laurent Sulpice, Antoine Monseil, Alexandre Sitbon, Pierre-Romain Delmotte, Dominique Thabut, Nicolas Weiss, Marika Rudler (F-Paris, F-Rennes)
15:45 – 16:00	Coffee Break
16:00 – 17:00	SESSION X HE AND TIPSS <i>Chair: Manuela Merli (I-Rome), Heiner Wedemeyer (D-Hannover)</i>
16:00 – 16:25	HE and TIPSS: Indications and Contraindications Dominique Thabut (F-Paris)
16:25 – 16:50	Reversal of Systemic Inflammation after TIPSS insertion B. Maasoumy (D-Hannover)
16:50	Closing remarks and invitation to the 21th ISHEN Symposium Chris Rose (CDN-Montréal)
18:00 – 19:00	Boat trip on the Zwischenahner Meer
19:30	Farewell Dinner at the “Spieker” with Traditional Dishes of the Region Ammerland, Am Hogen Hagen 4, 26160 Bad Zwischenahn

POSTER SESSION

01

Minimal Hepatic Encephalopathy is Associated with an Increased Risk of Overt Hepatic Encephalopathy and Poorer Prognosis – a Multicenter Study

Simon Johannes Gairing, Chiara Mangini, Lisa Zarantonello, Stefania Gioia, Elise Jonasson Nielsen, Sven Danneberg, Anna S. Lok, Philippe Sultanik, Peter Robert Galle, Joachim Labenz, Dominique Thabut, Jens Uwe Marquardt, Patricia P. Bloom, Mette Munk Lauridsen, Sara Montagnese, Silvia Nardelli, Christian Labenz
(D-Mainz, I-Padova, I-Rome, DK-Esbjerg, D-Lübeck, USA-Ann Arbor, F-Paris, D-Siegen, GB-Guildford)

02

Hepatic Encephalopathy is Associated with a Poorer Prognosis than Non Hepatic Encephalopathy in Cirrhotic Patients

Victor Desplats, Julie Assaraf, Luc Haudebourg, Sarah Mouri, Charlotte Bouzbib, Dominique Bonnefont-Rousselot, Mehdi Sakka, Philippe Sultanik, Apolline Leproux, Nicolas Weiss, Marika Rudler, Dominique Thabut
(F-Paris)

03

Lactulose Use among Patients with Alcohol-Related Liver Cirrhosis: Prevalence and Association with Mortality

Emma Celia Herting, Morten Daniel Jensen, Peter Jepsen (DK-Aarhus)

04

Higher Scores in the Clinical Frailty Scale are Associated with Covert and Overt Hepatic Encephalopathy in Patients with Cirrhosis

Eva Maria Schleicher, Leonard Kaps, Jörn M. Schattenberg, Peter Robert Galle, Marcus-Alexander Wörns, Simon Johannes Gairing*, Christian Labenz*
(D-Mainz, D-Dortmund)

05

Value of Six Minimal Hepatic Encephalopathy Test in Predicting Clinical Outcome in Patients with Liver Cirrhosis

Alena F. Ehrenbauer*, Julius F. M. Egge*, Maria M. Gabriel, Anja Tiede, Meike Dirks, Heiner Wedemeyer, Benjamin Maasoumy, Karin Weissenborn
(D-Hannover)

06

Cognitive differential diagnosis of hepatic encephalopathy in a cohort of outpatients with chronic liver disease

Kheloufi Lyès, Sultanik Philippe, Apolline Leproux, Antoine Santiago, Charlotte Bouzbib, Sarah Mouri, Marika Rudler, Nicolas Weiss, Dominique Thabut
(F-Paris)

POSTER SESSION

07

Working memory in patients with varying degree of hepatic encephalopathy before and after a course of rifaximin: an EEG-fNIRS study

Lisa Zarantonello, Chiara Mangini*, Davide Erminelli, Silvano Fasolato, Paolo Angeli, Piero Amodio, Sara Montagnese (I-Padova, GB-Guildford)

08

A Specialized Hepatic Encephalopathy Testing Clinic Improves Rational Decision Making for HE Therapy and can Detect Alternative Causes for Cognitive Impairment in Cirrhosis

Bryan Badal, Asiya Tafader, Mahum Nadeem, Dan Park, Mr. Andrew Fagan, Brian Davis, Michael Fuchs, Puneet Puri, Ms. HoChong Gilles, Jennifer Miller, Felicia Tinsley, Jasmohan S. Bajaj (USA-Richmond, VA)

09

Determining Clinically Meaningful Difference in Baseline EncephalApp Stroop Values to Predict HE-Related Outcomes with Multi-Center Validation

Bryan Badal, Gowthami Kanagalingam, Dan Park, Andrew Fagan, K. Rajender Reddy, Jacqueline G. O'Leary, Jennifer C. Lai, Puneeta Tandon, Florence Wong, Patrick S. Kamath, Guadalupe Garcia-Tsao, Scott W. Biggins, Hugo E. Vargas, Chathur Acharya, Jasmohan S. Bajaj (USA-Richmond, VA, USA-Philadelphia, PA, USA-Dallas, TX, USA-San Francisco, CA, CDN-Edmonton, AB, CDN-Toronto, ON, USA-Rochester, MN, USA-West Haven, CT, USA-Seattle, WA, ISA-Phoenix, AZ, USA-Columbus, OH)

10

CL-ART: A Novel Smartphone Application that Can Help Predict Future Hospitalisation Secondary to Cirrhosis Acute Decompensation

K. Gananandan, A.S. Frees Wietz, A. El Shabrawi, A. C. Daugaard Mikkelsen, M. Pilar Ballester, K. Kazankov, A. Balaji, R. Boddu, R. Kumar, K. L. Thomsen, R.P. Mookerjee (GB-London, DK-Aarhus)

11

Multimodal Assessment of Covert Hepatic Encephalopathy and its Outcome in a Prospective Cohort of Outpatients with Chronic Liver Disease

Sultanik Philippe, Lyes Kheloufi, Apolline Leproux, Antoine Santiago, Charlotte Bouzbib, Sarah Mouri, Aurélie Plessier, Rodolphe Sobesky, Audrey Coilly, Damien Galanaud, Vincent Navarro, Marika Rudler, Nicolas Weiss, Dominique Thabut (F-Paris, F-Clichy, F-Villejuif)

POSTER SESSION

12

The Diagnostic Value of Acetylcholinesterase Activity in Minimal Hepatic Encephalopathy: an Ongoing Need for Biomarkers?

Maria M. Gabriel, Alena F. Ehrenbauer, Ralf Lichtinghagen, Ann-Katrin Hennemann, Julius F. M. Egge, Meike Dirks, Heiner Wedemeyer, Benjamin Maasoumy, Karin Weissenborn (D-Hannover)

13

Reevaluation of the Critical Flicker Frequency in Patients with Liver Cirrhosis Reveals New Perspectives of its Diagnostic Impact in the Detection of Hepatic Encephalopathy

Alena F. Ehrenbauer*, Julius F. M. Egge*, Jana Al-Ayoubi, Ann-Katrin Hennemann, Meike Dirks, Heiner Wedemeyer, Benjamin Maasoumy, Karin Weissenborn, Maria M. Gabriel MD (D-Hannover)

14

Cognitive Impairment in Obesity and NAFLD: A Cross-Sectional Study of 180 Patients with Multi-Domain Cognitive Testing and Liver Biopsy.

Charlotte Wilhelmina Wernberg, Lea Ladegaard Grønkjær, Birgitte Gade, Vineesh Indira Chandran, Aleksander Krag, Jonas Heilskov Graversen, Karin Weissenborn, Hendrik Vilstrup, Mette Munk Lauridsen (DK-Esbjerg, DK-Odense, DK-Aarhus, D-Hannover)

15

Long Term Outcomes on Malnutrition, Sarcopenia and Physical Frailty after Liver Transplantation: Impact of Hepatic Encephalopathy

Amal Trigui, Mélanie Tremblay, Geneviève Huard, Chris Rose, Chantal Bémeur (CDN-Montréal)

16

Extracellular Vesicles are Involved in Modulation of the Immune System in Minimal Hepatic Encephalopathy

Juan José Gallego-Roig, Alessandra Fiorillo, Franc Casanova-Ferrer, Amparo Urios, Vicente Roig, Maria-Pilar Ballester, Lucia Durbán, María Pilar Ríos, Andrea Cabrera-Pastor, Javier Megias, Teresa San Miguel, Salvador Benlloch, Desamparados Escudero-Garcia, Paloma Lluch, Vicente Felipo, Carmina Montoliu (E-Valencia, E-Madrid)

POSTER SESSION

17 **Glutaminolysis and Steatosis to Steatohepatitis Transition: Role of Glutaminase**

Vanessa García-Fernández, Antonio Gil Gómez, Ángela Rojas, Rocío Muñoz-Hernández, Sheila Gato, Rocío Montero-Vallejo, Rocío Gallego-Durán, Douglas Maya-Miles, María del Carmen Rico, Javier Ampuero, Manuel Romero-Gómez (E-Sevilla)

18 **Nutritional Education Resource Developed for Patients Living with Cirrhosis: Impact of Hepatic Encephalopathy**

Manila Sophasath, Mélanie Tremblay, Crystèle Hogue, Geneviève Huard, Chris Rose, Chantal Bémour (CDN-Montréal)

19 **L-Ornithine L-Aspartate [LOLA] Improves Both Severe Encephalopathy and Survival in Patients with Liver Cirrhosis: Results of RCTs, Systematic Reviews and Meta-Analyses**

Roger F Butterworth (CDN-Montréal)

20 **Evaluation of a Hydroxamate-Based Urease Inhibitor in a Rodent Model of Hepatic Encephalopathy**

Diana Evstafeva, Filip Ilievski, Yinyin Bao, Zhi Luo, Boris Abramovic, Sunghyun Kang, Dunja Simicic, Dario Sessa, Stefanita-Octavian Mitrea, Katarzyna Pierzchala, Cristina Ramona Cudalbu, Jean-Christophe Leroux (CH-Zurich, CH-Geneva)

21 **The Beneficial Effect of Oral Cr supplementation in an Early Childhood Rat Model of Chronic Hepatic Encephalopathy: In Vivo Longitudinal 1H and 31P Magnetic Resonance Spectroscopy Study**

D. Simicic, O. Braissant, K. Pierzchala, S. Mitrea, D. Sessa, V. McLin, C. Cudalbu (CH-Lausanne, CH-Geneva)

22 **Hepatic Encephalopathy Following TIPS Placement: The Impact of New VIATORR Controlled Expansion (VCX) Stents in a Real-Life Experience**

Lucia Lapenna, Simone Di Cola, Samuele Esposito, Manuela Merli (I-Rome)

FACULTY: MAIN LECTURES

Jasmohan Bajaj MD, MS, FACC

Gastroenterology, Hepatology and Nutrition,
Virginia Commonwealth University Health
System, Richmond, Virginia, USA

William Bernal, MD

Liver Intensive Therapy Unit, Institute of Liver
Studies, King's College Hospital, London,
Great Britain

Anibh Das, MD

Clinic for Pediatric Nephrology,
Gastroenterology and Metabolic Disorders,
Hannover Medical School, Hannover,
Germany

Sharon DeMorrow, PhD

Division of Pharmacology and Toxicology,
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