

PERSONAL INFORMATION

Family name, First name: Montagnese Sara

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Date of birth: 06/04/1974

Nationality: Italian

URL for web site: <http://www.sleeprhythm.org>

EDUCATION

2009. PhD, University College London (UK); supervisor Prof MY Morgan

2008. Specialisation in Internal Medicine, University of Padua, Italy; 70/70 and distinction

1999. MD, University of Padua, Italy; 110/110 and distinction

CURRENT POSITION

From 2019. Associate Professor of Medicine and honorary consultant physician at the Department of Medicine, University of Padua, Italy

From 2013. Head, ESRS-approved Sleep&Rhythms in Medicine Laboratory, Padova University Hospital (<https://www.esrs.eu/research-laboratory-database/european-sleep-research-laboratories.html>)

Qualifies for the Full Chair of Internal Medicine and Gastroenterology (I fascia, until 2026)

PREVIOUS POSITIONS

2012-2019. Reader in Medicine (Ricercatore) and honorary consultant physician at the Department of Medicine, University of Padua, Italy

2009 - 2012. Junior and then Senior Clinical Research Fellow, University of Padova, Italy

2008 - 2009. Post-doctoral Clinical Research Fellow, University College London, London, UK

2003 - 2008. PhD student and Clinical Research Fellow, University College London, London, UK (on European Association for the Study of the Liver research funds)

2000 - 2002, 2006 - 2007. Specialist trainee in Internal Medicine, University of Padova, Italy

FELLOWSHIPS AND AWARDS

2003-2006. 'Sheila Sherlock 2004 Fellowship' from the European Association for the Study of the Liver (EASL) for a research project entitled 'Sleep-wake abnormalities in patients with cirrhosis and hepatic encephalopathy: the brain, the eye, and the genes' (amount of 30000 + 30000 €)

2002. Scholarship Leonardo Transedu (EU) for a project on 'Cognitive evoked potentials in psychiatric disorders and metabolic encephalopathies'. Queen Mary University College, London, UK (4000 €)

1993. Scholarship plus title of 'Alfiere del lavoro' by the President of the Italian Republic for being one of the top twenty Italian students (highest marks at high school, nationally)

TEACHING ACTIVITIES

Department of Medicine, University of Padua, Italy

From 2018. Internal Medicine for medical students

2013-2018. Clinical Methods for medical students

From 2016. Sleep & Rhythms in Medicine for medical students

From 2016. Teaching committee for the PhD in Medicine, subspecialty Hepatology

From 2013. Internal Medicine for nursing students

University College London, UK

From 2015. Undergraduate study module "From Clock to Chaos: Biological Rhythms in Biology and Medicine" (Biomedical Sciences: module code AMS1015)

ORGANISATION OF SCIENTIFIC MEETINGS

Chair of the scientific committee for the 2021 ISHEN (International Society for Hepatic Encephalopathy and Nitrogen Metabolism) meeting

Co-chair of the organising committee for the 2020 EASL (European Association for the Study of the Liver) monothematic conference on Hepatic Encephalopathy

2017. European Association for the Study of the Liver Annual Meeting (Amsterdam, The Netherlands);

Chair of the joint EASL-ISHEN workshop on hepatic encephalopathy (approx 100 participants)

2014. United European Gastroenterology Week (Wien, Austria); Coordinator of the workshop on the diagnosis of hepatic encephalopathy (approx 100 participants)

2014 and 2016. European Association for the Study of the Liver Annual Meeting (London, UK; Barcelona, Spain); Coordinator of the workshop on hepatic encephalopathy (approx 100 participants)

2013. Sleep and Rhythms in Medicine Congress (Padova, Italy) funded by Italian Ministry of Health and endorsed by the European Sleep Research Society (ESRS); over 300 national and international participants.

CLINICAL ACTIVITY

Clinical Medica 5, Department of Medicine, University of Padua, Italy

From 2012. As a honorary consultant physician, I look after both in- and outpatients. My inpatient activity covers internal medicine and hepatology. My outpatient clinics are mostly aimed at patients with complicated, end-stage liver disease (i.e. malnutrition and encephalopathy) and patients who misuse alcohol. I also run a daily specialist hepatic encephalopathy clinic, together with a neuropsychologist. This is a reference centre and we receive patients from all over the country, especially for purposes of differential diagnosis, management of persistent encephalopathy, and simulation of encephalopathy prior to TIPS placement. We record and interpret wake and sleep electroencephalography, cognitive evoked potentials and both paper&pencil and computerised neuropsychological tests. We also specialize in the evaluation of sleep-wake patterns with subjective and semi-quantitative tools, such as actigraphy. Finally, we have considerable experience of chronotherapy, i.e. the timed administration of melatonin and light (of varying intensity/spectrum) to correct circadian sleep disorders associated with liver disease and other chronic medical diseases.

2009-2012.

- Outpatient clinic for the study neuropsychiatric disturbances associated with medical diseases (head Prof. Piero Amodio)

- Day Service for the management of liver patients with alcohol misuse and/or risk factors for metabolic complications such as malnutrition and encephalopathy (head Prof. Angelo Gatta)

Royal Free and Hampstead NHS Trust, London, UK

2004-2006; 2008. In parallel with my activity of doctoral and post-doctoral fellow, I worked as a registrar (reference consultant Prof. Marsha Morgan):

- in the emergency department and the hepatology ward
- in the hepatology clinics, more often in the one dedicated to the management of alcohol misuse
- in the neurophysiology department, specializing in the acquisition and interpretation of wake electroencephalography

INSTITUTIONAL RESPONSIBILITIES

From 2019. Abstract reviewer for the International Liver Congress (ILC) on behalf of EASL (European Association for the Study of the Liver)

From 2019. Chair of the EASL (European Association for the Study of the Liver) panel for the production of the Clinical Practice Guideline on Hepatic Encephalopathy (*in progress*)

From 2019. President of ISHEN (International Society for Hepatic Encephalopathy and Nitrogen Metabolism; <http://www.ishen.org/committees.html>)

From 2019. Member of the Governing Board of AISF (Italian Association for the Study of the Liver; <https://appaisf.it/team-group/comitato-in-carica/>)

From 2019. Member of the Governing Board of EBRS (European Biological Rhythms Society; <https://www.ebrs-online.org/board>)

From 2018. Responsible for the organisation of the clinical practicals for years IV and V of the medical curriculum, on behalf of the Dean of the University of Padova and the President of the Medical School

From 2017. President Elect of ISHEN (International Society for Hepatic Encephalopathy and Nitrogen Metabolism; <http://www.ishen.org/committees.html>)

From 2016. European Foundation for the Study of Chronic Liver Failure – writing committee for the PREDICT study on the risk factors for the development of Acute-on-Chronic Liver Failure (ongoing)

2017-2018. Member of the EASL (European Association for the Study of the Liver) panel for the guidelines on nutrition in patients with chronic liver disease (*published*; <https://www.ncbi.nlm.nih.gov/pubmed/30144956>)

2017-2018. Chair of the AISF panel for the guidelines on hepatic encephalopathy (*published*; <https://www.ncbi.nlm.nih.gov/pubmed/30606696>)

2014-2016. Secretary of ISHEN

2009-2011. Member of the ISHEN panel for the guidelines on nutrition in patients with hepatic encephalopathy (*published*; <https://www.ncbi.nlm.nih.gov/pubmed/23471642>)

EDITORIAL AND REVIEW ACTIVITY

From July 2019. Associate Editor and Special Section editor (Snapshots) of Journal of Hepatology

From July 2019. Member of the Editorial Board, Hepatology

From 2018. Associate editor of Frontiers in Physiology - Chronobiology

2016. Referee for PhD selection, Institut du Cerveau et de la Moelle Epiniere, INSERM, Paris (France)

2016. Referee for MPhil in Clinical Neurosciences/Gates Scholarship selection, Cambridge (UK)

2015. Grant reviewer for the Swiss National Academy of Science

From 2014. Member of the Editorial board of BMJ open Gastroenterology

2012. External examiner; PhD in Hepatology; Valme University Hospital, Sevilla (Spain)

From 2012. Member of the Editorial board of Journal of Hepatology

2010. External examiner; PhD in Hepatology; University Hospital Vall d'Hebron, Barcelona (Spain)

2007-2009. Referee for the selection of the BSc (Bachelor of Science) course in Clinical Sciences (Royal Free and University College Medical School, London, UK)

Regular reviewer for several first quartile journals, categories Gastroenterology-Hepatology, Neurosciences

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

Member of the Italian (AISF), British (BASL), European (EASL), American (AASLD) Associations for the Study of the Liver

Member of the Italian (AIMS) and European Sleep Research (ESRS) Associations and the European Biological Rhythms Society (EBRS)

MAJOR COLLABORATIONS

DJ Skene, *Circadian Rhythms in disease*, Centre for Chronobiology, University of Surrey, UK

O Riggio, *Hepatic Encephalopathy*, La Sapienza University, Rome, Italy

R Costa, *Genetic basis of diurnal preference*, Department of Biology, University of Padova, Italy

A Mani, *Heart rate and temperature dynamics in cirrhosis*, University College London, UK
T Roenneberg, *Diurnal preference in medical diseases*, LMU University, Munich, Germany
V Felipo, *Hepatic Encephalopathy*, Centro de Investigacion Principe Felipe, Valencia, Spain
D Thabut, *Differential Diagnosis of Hepatic Encephalopathy*, Hôpital Pitié-Salpêtrière, Paris, France

PREVIOUS FUNDING AND PROJECTS AS PRINCIPAL INVESTIGATOR

2017. Patient-directed tools for the quantitative assessment of diurnal preference - Padova University Visiting Scientist 2017 (Prof. Till Roenneberg, 7.500 €)
2016. Heart rate dynamics in cirrhosis and Sepsis - Visiting Professor Cariparo Project (Prof. Alireza Mani, 16.000 €)
2010. Investigator-Initiated Trial on the effect of LOLA and Caffeine on cognitive and sleep correlates of hyperammonaemia, funded by Merz Pharmaceuticals GmbH (25000 €)
2011-2015. Italian Ministry of Health Young Researchers Grant (GR2009-1604309) for a set of research studies titled 'Sleep-wake disturbances in Internal Medicine: the Liver Model' (325000 €).
2009-2019. Consultancy and/or donations from the pharmaceutical industry and private individuals for a total of approximately 60000 €.

ONGOING FUNDED PROJECTS

Supporting Talent in ReSearch@University of Padova - STARS@UNIPD 2019 "Consolidator Grants (STARS-CoG)" – PI Sara Montagnese, "CircadianCare"; budget: 137,380
Decompensated cirrhosis: identification of new combinatorial therapies based on system approaches (DECISION) Horizon 2020 (Call: H2020-SC1-BHC-2018-2020)
Total budget for the consortium: 5,950,000; local budget: 151,375
Roles: Unit Head for WP6 (Dissemination) and Collaborator for WP7 (Clinical Trial)
Educational tools for the prophylaxis of hepatic encephalopathy, funded by Alfa Wassermann S.p.a.
Diagnosis and differential diagnosis of hepatic encephalopathy, funded by Norgine Ltd.
A survey on perception, diagnosis and management of hepatic encephalopathy in Italy, funded by Ogilvie Healthworld (Milano)
Electrophysiological effects of a novel drug for the management of hepatic encephalopathy, funded by Umecrine Cognition - Karolinska Institutet

EARLY ACHIEVEMENTS TRACK-RECORD

My first research contributions have been in the field of hepatic encephalopathy (HE), a complication of cirrhosis of which I am one of the leading international experts. I am often invited to cover diagnostic and management aspects of this disease in international meetings and I am a consultant for several companies developing new drugs to treat HE. I am a long-standing member, have served as Secretary and currently serve as President of the International Society for Hepatic Encephalopathy and Nitrogen Metabolism. I have recently served as a panel member for the guidelines on the nutritional management of cirrhosis on behalf of the European Association for the Study of the Liver (*published*) and have chaired the revision of the Italian Guidelines on HE on behalf of the Italian Association for the Study of the Liver (*published*). HE continues to be a clinical and a scientific interest of mine, and since 2009 I have run the Padova University clinic for the study of this disease, an internationally recognized tertiary referral centre. During my doctoral and post-doctoral studies in the UK, which were funded by a competitive Sheila Sherlock Fellowship from the European Association for the Study of the Liver, I developed an interest in the sleep-wake disturbances exhibited by patients with cirrhosis. Over the years, I have made considerable contributions to their understanding and their management, and have established cirrhosis as a model of the specifics and the difficulties of studying sleep-wake and circadian phenotypes in patients with chronic medical disorders. I

have established the first course Sleep&Rhythm in Medicine for medical students in Padova and I have associated a steady scientific production with immediate applications to clinical practice (i.e. the introduction of circadian-friendly lighting in inpatient rooms). In October 2013, I organized the first 'Sleep and Rhythms in Medicine' International Congress in Padova. My goals were to provide a forum for scientific discussion on major sleep/circadian topics, and also a bridge to hospital practice and specific clinical applications. The congress was funded by the Italian Ministry of Health, endorsed by the Italian/European Societies for Sleep Research and attended by over 300 international delegates. The European Sleep Research Association has recognized my Lab within its network. I am author of 115 publications on peer-reviewed journals (H index=24), three book chapters and a popular science book.

INVITED PRESENTATIONS (SELECTION)

- 2019. Rocking around the clock, a symposium in honour of Prof. Rodolfo Costa (Padova, Italy) *Delayed sleep phase disorder: from case reports to clinical practice*
- 2019. International Society for Hepatic Encephalopathy and Nitrogen Metabolism (Williamsburg, USA) *Role of electrophysiology in diagnosing hepatic encephalopathy*
- 2019. European Biological Rhythms Society Meeting (Lyon, France) *Measuring circadian indices in patient populations: tips from cirrhosis*
- 2019. European Association for the Study of the Liver Annual Meeting (Vienna, Austria) *Novel treatments for hepatic encephalopathy*
- 2018, XXVIII Congress of the Italian Association for the Study of Sleep (Taormina, Italy) *Circadian abnormalities in chronic medical disorders: the model of liver failure*
- 2017, Royal Free and UCL Postgraduate Liver Course, London, UK *Hepatic Encephalopathy*
- 2017, European Association for the Study of the Liver Annual Meeting (Amsterdam, Netherlands) *Other neurological and psychiatric issues in chronic liver disease*
- 2016, Brain and Liver Paris Symposium - BLIPS (Paris, France) *Overt hepatic encephalopathy in cirrhosis and acute liver failure*
- 2015, Lecture of the Annual Meeting of the Italian Association for the Study of the Liver (Roma, Italia) *Cognitive abnormalities in cirrhosis*
- 2014, Yale Liver Update (New Haven, US) *Diagnosis of Hepatic Encephalopathy*
- 2014, Seminars of the Institute of Medical Psychology at LMU (Munich, Germany) *Introducing chronobiology to reluctant clinicians*
- 2012, European Association for the Study of the Liver Annual Meeting (Barcelona, Spain) *Sleep, sleepiness and hepatic encephalopathy*
- 2011, Annual Meeting of the Asian Pacific Association for the Study of the Liver (Bangkok, Thailand) *Nutrition and hepatic encephalopathy: Rights and Wrongs*
- 2010, International Society for Hepatic Encephalopathy and Nitrogen Metabolism (Montreal, Canada) *Sleep-wake abnormalities in cirrhosis*

PRIZES/AWARDS

2007. Forin Prize (1000 €) for a project presented at the 2007 Edition of the International Congress 'Updates and Prospects in Hepatology' (Padua, Italy).

2018. AISF (Italian Association for the Study of the Liver) prize for the most influential paper of year 2016 in clinical hepatology (based on impact factor, content and citations; PMID: 26833704, senior author).

PUBLICATIONS

1. Formentin C, Carraro S, Turco M, Zarantonello L, Angeli P, **Montagnese S**. Effect of morning light glasses and night short-wavelength filter glasses on sleep-wake rhythmicity in medical inpatients. *Front Physiol.*, *in press*
2. Zeng G, Penninkilampi R, Chaganti J, **Montagnese S**, Brew BJ, Danta M. A meta-analysis of magnetic resonance spectroscopy in the diagnosis of hepatic encephalopathy. *Neurology*. 2020 Jan 9. pii: 10.1212/WNL.0000000000008899. doi: 10.1212/WNL.0000000000008899.
3. Ghotbi N, Pilz LK, Winnebeck EC, Vetter C, Zerbini G, Lenssen D, Frighetto G, Salamanca M, Costa R, **Montagnese S**, Roenneberg T. The μ MCTQ: An Ultra-Short Version of the Munich ChronoType Questionnaire. *J Biol Rhythms*. 2019 Dec 3;748730419886986. doi: 10.1177/0748730419886986.
4. Moreau R, Clària J, Aguilar F, Fenaille F, Lozano J, Junot C, Colsch B, Caraceni P, Trebicka J, Pavesi M, Alessandria C, Nevens F, Saliba F, Welzel TM, Albillos A, Gustot T, Fernández J, Moreno C, Baldasarre M, Zaccherini G, Piano S, **Montagnese S**, Vargas V, Genescà J, Solà E, Bernal W, Butin N, Hautbergue T, Cholet S, Castelli F, Jansen C, Steib C, Campion D, Mookerjee R, Rodríguez-Gandía M, Soriano G, Durand F, Benten D, Bañares R, Stauber RE, Gronbaek H, Coenraad MJ, Ginès P, Gerbes A, Jalan R, Bernardi M, Arroyo V, Angeli P; CANONIC Study Investigators of the EASL Clif Consortium, Grifols Chair and the European Foundation for the Study of Chronic Liver Failure (EF Clif). Blood metabolomics uncovers inflammation-associated mitochondrial dysfunction as a potential mechanism underlying ACLF. *J Hepatol*. 2019 Nov 25. pii: S0168-8278(19)30696-8. doi: 10.1016/j.jhep.2019.11.009.
5. Formentin C, Zarantonello L, Mangini C, Angeli P, Merkel C, **Montagnese S**. Clinical value of asterixis in 374 well-characterised patients with cirrhosis and varying degree of hepatic encephalopathy. *Dig Liver Dis*. 2019 Sep 30. pii: S1590-8658(19)30793-5. doi: 10.1016/j.dld.2019.09.003.
6. Senzolo M, Zarantonello L, Formentin C, Orlando C, Beltrame R, Vuerich A, Angeli P, Burra P, **Montagnese S**. Predictive value of induced hyperammonaemia and neuropsychiatric profiling in relation to the occurrence of post-TIPS hepatic encephalopathy. *Metab Brain Dis*. 2019 Dec;34(6):1803-1812. doi: 10.1007/s11011-019-00490-5.
7. **Montagnese S**; AISF, the Italian Association for the Study of the Liver. Agreement and compliance with process measures proposed by the AASLD Practice Metrics Committee: An Italian perspective. *Dig Liver Dis*. 2019 Nov;51(11):1619-1620. doi: 10.1016/j.dld.2019.07.019.
8. Satti R, Abid N, Bottaro M, De Rui M, Garrido M, Rauofy MR, **Montagnese S**, Mani AR. The application of the extended Poincaré plot in the analysis of physiological variabilities. *Front Physiol*. 2019;10:116.
9. Trotta E, Bortolotti S, Fugazzotto G, Gellera C, **Montagnese S**, Amodio P. Familial vitamin E deficiency: Multiorgan complications support the adverse role of oxidative stress. *Nutrition*. 2019;63-64:57-60.
10. **Montagnese S**, Bajaj JS. Impact of Hepatic Encephalopathy in Cirrhosis on Quality-of-Life Issues. *Drugs*. 2019;79:11-16.
11. Zarantonello L, Turco M, Formentin C, Izquierdo-Altarejos P, Vuerich A, Barcenas Jimenez MJ, Montoliu C, Felipe V, Angeli P, Amodio P, **Montagnese S**. The influence of HE history, HE status and neuropsychological test type on learning ability in patients with cirrhosis. *Liver Int*. 2019;39:861-870.
12. Formentin C, De Rui M, Zoncapè M, Ceccato S, Zarantonello L, Senzolo M, Burra P, Angeli P, Amodio P, **Montagnese S**. The Psychomotor Vigilance Task: Role in the Diagnosis of Hepatic Encephalopathy and Relationship with Driving Ability. *J Hepatol*. 2019;70:648-657.
13. **Montagnese S**, Russo FP, Amodio P, Burra P, Gasbarrini A, Loguercio C, Marchesini G, Merli M, Ponziani FR, Riggio O, Scarpignato C. Hepatic encephalopathy 2018: A clinical practice guideline by the Italian Association for the Study of the Liver (AISF). *Dig Liver Dis*. 2019;51:190-205.
14. Bhogal AS, De Rui M, Pavanello D, El-Azizi I, Rowshan S, Amodio P, **Montagnese S**, Mani AR. Which heart rate variability index is an independent predictor of mortality in cirrhosis. *Dig Liver Dis*. 2018.

15. EASL Clinical Practice Guidelines (CPG) on nutrition in chronic liver disease. Merli M (chair), Zelber-Sagi S, Dasarathy S, **Montagnese S**, Genton L, Plauth M, Parés A, Berzigotti A (EASL Governing Board representative). *J Hepatol*. 2019;70:172-193.
16. Turco M, Cazzagon N, Franceschet I, Formentin C, Frighetto G, Giordani F, Cellini N, Mazzotta G, Costa R, Middleton B, Skene DJ, Floreani A, **Montagnese S**. Morning Bright Light Treatment for Sleep-Wake Disturbances in Primary Biliary Cholangitis: A Pilot Study. *Front Physiol*. 2018;9:1530.
17. Ferrazzi E, Romualdi C, Ocello M, Frighetto G, Turco M, Vigolo S, Fabris F, Angeli P, Vettore G, Costa R, **Montagnese S**. Changes in Accident & Emergency Visits and Return Visits in Relation to the Enforcement of Daylight Saving Time and Photoperiod. *J Biol Rhythms*. 2018;33:555-564.
18. Formentin C, Garrido M, **Montagnese S**. Assessment and Management of Sleep Disturbance in Cirrhosis. *Curr Hepatol Rep*. 2018;17:52-69.
19. Volpato S, **Montagnese S**, Zanetto A, Turco M, De Rui M, Ferrarese A, Amodio P, Germani G, Senzolo M, Gambato M, Russo FP, Burra P. Neuropsychiatric performance and treatment of hepatitis C with direct-acting antivirals: a prospective study. *BMJ Open Gastroenterol*. 2017;4:e000183.
20. Bhogal AS, **Montagnese S**, Mani AR. The consideration of heart rate complexity as a co-morbidity factor for liver transplantation selection procedures. *Liver Int*. 2018;38(2):380.
21. Garrido M, Turco M, Formentin C, Corrias M, De Rui M, **Montagnese S**, Amodio P. An educational tool for the prophylaxis of hepatic encephalopathy. *BMJ Open Gastroenterol*. 2017;4:e000161.
22. Marini S, Santangeli O, Saarelainen P, Middleton B, Chowdhury N, Skene DJ, Costa R, Porkka-Heiskanen T, **Montagnese S**. Abnormalities in the Polysomnographic, Adenosine and Metabolic Response to Sleep Deprivation in an Animal Model of Hyperammonemia. *Front Physiol*. 2017;8:636.
23. Mani AR, Mazloom R, Haddadian Z, **Montagnese S**. Body temperature fluctuation analysis in cirrhosis. *Liver Int*. 2018;38:378-379.
24. Turco M, Biscontin A, Corrias M, Caccin L, Bano M, Chiaromanni F, Salamanca M, Mattei D, Salvoro C, Mazzotta G, De Pittà C, Middleton B, Skene DJ, **Montagnese S**, Costa R. Diurnal preference, mood and the response to morning light in relation to polymorphisms in the human clock gene PER3. *Sci Rep*. 2017;7:6967.
25. Garrido M, Saccardo D, De Rui M, Vettore E, Verardo A, Carraro P, Di Vitofrancesco N, Mani AR, Angeli P, Bolognesi M, **Montagnese S**. Abnormalities in the 24-hour rhythm of skin temperature in cirrhosis: Sleep-wake and general clinical implications. *Liver Int*. 2017;37:1833-1842.
26. Longato E, Garrido M, Saccardo D, Montesinos Guevara C, Mani AR, Bolognesi M, Amodio P, Facchinetti A, Sparacino G, **Montagnese S**. Expected accuracy of proximal and distal temperature estimated by wireless sensors, in relation to their number and position on the skin. *PLoS One*. 2017;12:e0180315.
27. Amodio P, **Montagnese S**, Spinelli G, Schiff S, Mapelli D. Cognitive reserve is a resilience factor for cognitive dysfunction in hepatic encephalopathy. *Metab Brain Dis*. 2017;32:1287-1293.
28. **Montagnese S**, Angeli P, Craxi A. Between reality and the guidelines: A survey on perception, diagnosis and management of hepatic encephalopathy in 201 Italian specialist centres. *Dig Liver Dis*. 2017 Jul;49:828-830.
29. Campagna F, **Montagnese S**, Ridola L, Senzolo M, Schiff S, De Rui M, Pasquale C, Nardelli S, Pentassuglio I, Merkel C, Angeli P, Riggio O, Amodio P. The animal naming test: An easy tool for the assessment of hepatic encephalopathy. *Hepatology*. 2017;66:198-208.
30. **Montagnese S**, De Rui M, Angeli P, Amodio P. Reply to: "Tools and tactics for improving diagnosis of hepatic encephalopathy". *J Hepatol*. 2017;66:1328-1329.
31. Vassena C, Casati M, Sala G, Perlangeli V, **Montagnese S**, Ippolito S, Carati L. Evaluation of a Modified Roche Enzymatic Ammonia Method for Roche Cobas 6000 (c501 Module) Automated Platform: When 5 µL Improves Performance. *Clin Lab*. 2016;62:2423-2428.
32. **Montagnese S**, De Rui M, Angeli P, Amodio P. Neuropsychiatric performance in patients with cirrhosis: Who is "normal"? *J Hepatol*. 2017;66:825-835.

33. Cagnin A, Fragiaco F, Camporese G, Turco M, Bussè C, Ermani M, **Montagnese S**. Sleep-Wake Profile in Dementia with Lewy Bodies, Alzheimer's Disease, and Normal Aging. *J Alzheimers Dis*. 2017;55:1529-1536.
34. Schiff S, Amodio P, Testa G, Nardi M, **Montagnese S**, Caregaro L, di Pellegrino G, Sellitto M. Impulsivity toward food reward is related to BMI: Evidence from intertemporal choice in obese and normal-weight individuals. *Brain Cogn*. 2016;110:112-119.
35. Felipo V, **Montagnese S**. A rare and revealing glimpse of the cerebrospinal fluid of patients with hepatic encephalopathy. *J Hepatol*. 2016;65:1077-1078.
36. McPhail MJ, **Montagnese S**, Villanova M, El Hadi H, Amodio P, Crossey MM, Williams R, Cox IJ, Taylor-Robinson SD. Urinary metabolic profiling by (1)H NMR spectroscopy in patients with cirrhosis may discriminate overt but not covert hepatic encephalopathy. *Metab Brain Dis*. 2017;32:331-341.
37. Garrido M, Skorucak J, Raduazzo D, Turco M, Spinelli G, Angeli P, Amodio P, Achermann P, **Montagnese S**. Vigilance and wake EEG architecture in simulated hyperammonaemia: a pilot study on the effects of L-Ornithine-L-Aspartate (LOLA) and caffeine. *Metab Brain Dis*. 2016;31:965-74.
38. Schiff S, Casa M, Di Caro V, Aprile D, Spinelli G, De Rui M, Angeli P, Amodio P, **Montagnese S**. A low-cost, user-friendly electroencephalographic recording system for the assessment of hepatic encephalopathy. *Hepatology*. 2016;63:1651-9.
39. De Rui M, **Montagnese S**, Amodio P. Recent developments in the diagnosis and treatment of covert/minimal hepatic encephalopathy. *Expert Rev Gastroenterol Hepatol*. 2016;10:443-50.
40. Rosi S, Poretto V, Cavallin M, Angeli P, Amodio P, Sattin A, **Montagnese S**. Hepatic decompensation in the absence of obvious precipitants: the potential role of cytomegalovirus infection/reactivation. *BMJ Open Gastroenterol*. 2015;2:e000050.
41. Turco M, Corrias M, Chiaromanni F, Bano M, Salamanca M, Caccin L, Merkel C, Amodio P, Romualdi C, De Pittà C, Costa R, **Montagnese S**. The self-morningness/eveningness (Self-ME): An extremely concise and totally subjective assessment of diurnal preference. *Chronobiol Int*. 2015;32:1192-200.
42. Morgan MY, Amodio P, Cook NA, Jackson CD, Kircheis G, Lauridsen MM, **Montagnese S**, Schiff S, Weissenborn K. Qualifying and quantifying minimal hepatic encephalopathy. *Metab Brain Dis*. 2016;31:1217-1229.
43. Amodio P, **Montagnese S**, Mullen K, Orr JG, Vilstrup H. Where are we going? Translational research in hepatic encephalopathy. *Metab Brain Dis*. 2016;31:1231-1237.
44. Amodio P, **Montagnese S**. Clinical neurophysiology of hepatic encephalopathy. *J Clin Exp Hepatol*. 2015 Mar;5(Suppl 1):S60-8.
45. **Montagnese S**, Turco M, Amodio P. Hepatic encephalopathy and sleepiness: an interesting connection? *J Clin Exp Hepatol*. 2015 Mar;5(Suppl 1):S49-53.
46. Drenth JP, **Montagnese S**. First evidence-based guidelines for the diagnosis and management of hepatic encephalopathy: A welcome development. *J Hepatol*. 2015;62:1457.
47. Rosi S, Piano S, Frigo AC, Morando F, Fasolato S, Cavallin M, Gola E, Romano A, **Montagnese S**, Sticca A, Gatta A, Angeli P. New ICA criteria for the diagnosis of acute kidney injury in cirrhotic patients: can we use an imputed value of serum creatinine? *Liver Int*. 2015;35:2108-14.
48. Corrias M, Turco M, Rui MD, Gatta A, Angeli P, Merkel C, Amodio P, Schiff S, **Montagnese S**. Covert hepatic encephalopathy: does the mini-mental state examination help? *J Clin Exp Hepatol*. 2014;4:89-93.
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