



Plaza de Cibeles with its iconic fountain and palace in Madrid, Spain. Read in this issue the important work by Nyssen et al on the European Registry on *Helicobacter pylori* management (HpEuReg) 5-year patterns and outcomes.

An international journal of gastroenterology and hepatology
Impact Factor: 19.819

Editor

Emad El-Omar (Australia)

Deputy Editor (Hepatology)

Alexander Gerbes (Germany)

Deputy Editor (Luminal Gastroenterology)

William Grady (USA)

Deputy Editor (Endoscopy)

Thomas Rosch (Germany)

Associate Editors

Guy Boeckxstaens (Belgium)

Patrice Cani (Belgium)

Jean-Francois Dufour (Switzerland)

Thomas Gress (Germany)

Christian Jobin (USA)

Arthur Kaser (UK)

Ernst Kuipers (The Netherlands)

Siew C Ng (Hong Kong)

Francisco Real (Spain)

Robert Thimme (Germany)

Herbert Tilg (Austria)

Fabien Zoulim (France)

**Artificial Intelligence/
Machine Learning Editor**

Akbar Waljee (USA)

Statistics Editors

Ruben Hernaez (USA)

Susan Hutfless (USA)

Editorial Office

Gut

BMJ Journals

BMA House, Tavistock Square

London, WC1H 9JR, UK

E: info.gut@bmj.com

ISSN: 0017-5749 (print)

ISSN: 1468-3288 (online)

Disclaimer: The Editor of *Gut* has been granted editorial freedom and *Gut* is published in accordance with editorial guidelines issued by the World Association of Medical Editors and the Committee on Publication Ethics. *Gut* is primarily intended for healthcare professionals and its content is for information only. The Journal is published without any guarantee as to its accuracy or completeness and any representations or warranties are expressly excluded to the fullest extent permitted by law. Readers are advised to independently verify any information on which they choose to rely. Acceptance of advertising by *Gut* does not imply endorsement. Neither BSG nor BMJ Publishing Group Limited shall have any liability for any loss, injury or damage howsoever arising from *Gut* (except for liability which cannot be legally excluded).

Copyright © 2021 BMJ Publishing Group Ltd and British Society of Gastroenterology. All rights reserved; no part of this publication may be reproduced in any form without permission. *Gut* is published by BMJ Publishing Group Ltd, typeset by Exeter Premedia Services Private Ltd, Chennai, India and printed in the UK on acid-free paper

Gut is published by BMJ Publishing Group Ltd, typeset by Exeter Premedia Services Private Ltd, Chennai, India and printed in the UK on acid-free paper
Gut (ISSN: 0017-5749) (USPS 2278) is published bimonthly by BMJ Publishing Group Ltd, BMA House, Tavistock Square, WC1H 9JR London. Airfreight and mailing in the USA by agent named World Container Inc, 150-15, 183rd Street, Jamaica, NY 11413, USA. Periodicals postage paid at Brooklyn, NY 11256. US Postmaster: Send address changes to *Gut*, World Container Inc, 150-15, 183rd Street, Jamaica, NY 11413, USA. Subscription records are maintained at BMA House, Tavistock Square WC1H 9HR London. Air Business Ltd is acting as our mailing agent.

Commentaries

- 1 European Registry on *Helicobacter pylori* management shows that gastroenterology has largely failed in its efforts to guide practitioners
D Y Graham, H B El-Serag
- 2 Autologous faecal microbiota transplantation for type 1 diabetes: a potential mindshift in therapeutic microbiome manipulation?
G Ianiro, A Gasbarrini, G Cammarota
- 4 Braking the cell's cycle and invigorating T-cell immunity against pancreatic cancer
C B Lesinski

Endoscopy news

- 6 Full-field optical coherence tomography: novel imaging technique for extemporaneous high-resolution analysis of mucosal architecture in human gut biopsies
L Quéhérvé, R Olivier, M J Gora, C Bossard, J-F Mosnier, E Benoit a la Guillaume, C Boccara, C Brochard, M Neunlist, E Conon

Guidelines

- 9 Guidelines on the management of ascites in cirrhosis
G P Aithal, N Palaniyappan, L China, S Härmälä, L Macken, J M Ryan, E A Wilkes, K Moore, J A Leithead, P C Hayes, A J O'Brien, S Verma

Oesophagus

- 30 Reflux symptoms and oesophageal acidification in treated achalasia patients are often not reflux related
F A Ponds, J M Oors, A J P M Smout, A J Bredenoord

Helicobacter pylori

- 40 European Registry on *Helicobacter pylori* management (Hp-EuReg): patterns and trends in first-line empirical eradication prescription and outcomes of 5 years and 21 533 patients
O P Nyssen, D Bordin, B Tepes, Á Pérez-Aisa, D Vaira, M Caldas, L Bujanda, M Castro-Fernandez, F Lerang, M Leja, L Rodrigo, T Rokkas, L Kupcinskas, J Pérez-Lasala, L Jonaitis, O Shvets, A Gasbarrini, H Simsek, A T R Axon, G Buzás, J C Machado, Y Niv, L Boyanova, A Goldis, V Lamy, A Tonkic, K Przytulski, C Beglinger, M Venetio, P Bytzer, L Capelle, T Milosavljević, V Milivojević, L Vejijola, J Molina-Infante, L Vologzhanina, G Fadeenko, I Ariño, G Fiorini, A Garre, J Garrido, C F Pérez, I Puig, F Heluwaert, F Megraud, C O'Morain, J P Gisbert, On behalf of the Hp-EuReg Investigators

Stomach

- 55 YAP1 mediates gastric adenocarcinoma peritoneal metastases that are attenuated by YAP1 inhibition
J A Ajani, Y Xu, L Huo, R Wang, Y Li, Y Wang, M P Pizzi, A Scott, K Harada, L Ma, X Yao, J Jin, W Zhao, X Dong, B D Badgwell, N Shanbhag, G Tailonghari, J S Estrella, S Roy-Chowdhuri, M Kobayashi, J V Vykoukal, S M Hanash, G A Calin, G Peng, J-S Lee, R L Johnson, Z Wang, L Wang, S Song

Endoscopy

- 67 Early gastric cancer detection in high-risk patients: a multicentre randomised controlled trial on the effect of second-generation narrow band imaging
N Yoshida, H Doyama, T Yano, T Horimatsu, N Uedo, Y Yamamoto, N Kakushima, H Kanzaki, S Hori, K Yao, I Oda, C Katada, C Yokoi, K Ohata, K Yoshimura, H Ishikawa, M Muto

COVID-19

- 76 Severe clinical outcomes of COVID-19 associated with proton pump inhibitors: a nationwide cohort study with propensity score matching
S W Lee, E K Ha, A Ö Yeniöva, S Y Moon, S Y Kim, H Y Koh, J M Yang, S J Jeong, S J Moon, J Y Cho, I K Yoo, D K Yon

Inflammatory bowel disease

- 85 Inflammatory bowel disease is associated with higher dementia risk: a nationwide longitudinal study
B Zhang, H E Wang, Y-M Bai, S-J Tsai, T-P Su, T-J Chen, Y-P Wang, M-H Chen

Gut microbiota

- 92 Faecal microbiota transplantation halts progression of human new-onset type 1 diabetes in a randomised controlled trial
P de Groot, T Nikolic, S Pellegrini, V Sordi, S Imangaliyev, E Rampanelli, N Hanssen, I Attaye, G Bakker, G Duinkerken, A Joosten, A Prodan, E Levin, H Levels, B Potter van Loon, A van Bon, C Brouwer, S van Dam, S Simsek, D van Raalte, F Stam, V Gerdes, R Hoogma, M Diekman, M Gerding, C Rustemeijer, B de Bakker, J Hoekstra, A Zwinderman, J Bergman, F Holleman, L Piemonti, W De Vos, B Roep, M Nieuwdorp

MORE CONTENTS ►



EDITOR'S CHOICE



OPEN ACCESS

This article has been chosen by the Editor to be of special interest or importance and is freely available online.

This article has been made freely available online under the BMJ Journals open access scheme.

See <http://authors.bmj.com/open-access/>

C O P E

Member since 2008
JMD0004

This journal is a member of and subscribes to the principles of the Committee on Publication Ethics

www.publicationethics.org



When you have finished with this magazine please recycle it.

Colon

- 106** Transition to quantitative faecal immunochemical testing from guaiac faecal occult blood testing in a fully rolled-out population-based national bowel screening programme
G Clark, J A Strachan, F A Carey, T Godfrey, A Irvine, A McPherson, J Brand, A S Anderson, C G Fraser, RJC Steele

- 114** Colon and rectal cancer survival in seven high-income countries 2010–2014: variation by age and stage at diagnosis (the ICBP SURVMARK-2 project)
M Araghi, M Arnold, M J Rutherford, M G Guren, C J Cabasag, A Bardot, J Ferlay, H Tervonen, L Shack, R R Woods, N Saint-Jacques, P De, C McClure, G Engholm, A T Gavin, E Morgan, P M Walsh, C Jackson, G Porter, B Møller, O Bucher, M Eden, D L O'Connell, F Bray, I Soerjomataram

Pancreas

- 127** Targeting dual signalling pathways in concert with immune checkpoints for the treatment of pancreatic cancer
E S Knudsen, V Kumarasamy, S Chung, A Ruiz, P Vail, S Tzetzo, J Wu, R Nambiar, J Sivinski, S S Chauhan, M Seshadri, S I Abrams, J Wang, A K Witkiewicz

- 139** Design and validation of a patient-reported outcome measure scale in acute pancreatitis: the PAN-PROMISE study
E de-Madaria, C Sánchez-Marin, I Carrillo, S S Vege, S Chooklin, A Bilyak, R Mejuto, V Mauriz, P Hegyi, K Márta, A Kamal, E Lauret-Braña, S T Barbu, V Nunes, M L Ruiz-Rebollo, G García-Rayado, E E Lozada-Hernandez, J Pereira, I Negoj, S Espina, M Hollenbach, A Litvin, F Bolado-Concejo, R D Vargas, I Pascual-Moreno, V K Singh, J J Mira

- 148** Comprehensive characterisation of pancreatic ductal adenocarcinoma with microsatellite instability: histology, molecular pathology and clinical implications
C Luchini, L A A Brosens, L D Wood, D Chatterjee, J I Shin, C Sciammarella, G Fiadone, G Malleo, R Savia, V Kryklyva, M L Piredda, L Cheng, R T Lawlor, V Adsay, A Scarpa

Hepatology

- 157** Targeting clinical epigenetic reprogramming for chemoprevention of metabolic and viral hepatocellular carcinoma
F Jühling, N Hamdane, E Crouchet, S Li, H El Saghire, A Mukherji, N Fujiwara, M A Oudot, C Thumann, A Saviano, A A Roca Suarez, K Goto, R Masia, M Sojoodi, G Arora, H Aikata, A Ono, P Tabrizian, M Schwartz, S J Polyak, I Davidson, C Schmidl, C Bock, C Schuster, K Chayama, P Pessaux, K K Tanabe, Y Hoshida, M B Zeisel, F HT Duong, B C Fuchs, T F Baumert

- 170** Mortality in biopsy-proven alcohol-related liver disease: a population-based nationwide cohort study of 3453 patients
H Hagström, M Thiele, B Roelstraete, J Söderling, J F Ludvigsson

- 180** LPIAT1/MBOAT7 depletion increases triglyceride synthesis fueled by high phosphatidylinositol turnover
Y Tanaka, Y Shimanaka, A Caddeo, T Kubo, Y Mao, T Kubota, N Kubota, T Yamauchi, R M Mancina, G Baselli, P Luukkonen, J Pihlajamäki, H Yki-Järvinen, L Valenti, H Arai, S Romeo, N Kono

Recent advances in basic science

- 194** Critical thresholds: key to unlocking the door to the prevention and specific treatments for acute pancreatitis
S G Barreto, A Habtezion, A Gukovskaya, A Lugea, C Jeon, D Yadav, P Hegyi, V Venglovecz, R Sutton, S J Pandol

Recent advances in clinical practice

- 204** Immunotherapy for advanced hepatocellular carcinoma: a focus on special subgroups
M Pinter, B Scheiner, M Peck-Radosavljevic

JournalScan

- 215** GI highlights from the literature
P J Smith

PostScript

- 218** Letters

Editor's quiz: GI snapshot

- 66** Curious case of gut dysmotility
P S Lee, L Jopson, S J Needham, C G Mountford, N P Thompson