

Tranquil Autumn landscape over the Charles River in Boston, Massachusetts. Read in this issue the key paper by Merino et al on diet quality and risk and severity of COVID-19.

An international journal of gastroenterology and hepatology Impact Factor: 23.059

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 (Belguim) Patrice Cani (Belgium) Jean-Francois Dufour (Switzerland) Thomas Gress (Germany) Christian Jobin (USA) Ernst Kuipers (The Netherlands) Markus Neurath (Germany) 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 Huffless (USA)

Editorial Office

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 bimonthly by BMJ Publishing Group Ltd, DIVIA House, Tavistock Square, WCH 99/R London. Affreight 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.WC1H 9HR London. Air Business Ltd is acting

Commentaries

Contents

2023 Metabolic signature might be an option to 6 identify patients with early CP

OPEN ACCESS B Erőss, A Szentesi, P Hegyi

2025 Uniting the global gastroenterology community to meet the challenge of climate change and non-recyclable waste

> D Leddin, B Omary, A M Veitch, G Metz, N Amrani, L Aabakken, R A Raja Ali, M R Alvares-Da-Silva, D Armstrong, S Boyacioglu, Y Chen, R Elwakil, K-M Fock, S S Hamid, G Makharia, F Macrae, R Malekzadeh, C J Mulder, A Piscoya, M ling Perman, A Sadeghi, R Saenz, J-C Saurin, A S Butt, K Wu, Y Yeh Lee

Guidelines

2030 British Society of Gastroenterology guidelines for the management of iron deficiency anaemia in adults

> I Snook, N Bhala, I L P Beales, D Cannings, C Kightley, R PH Logan, D M Pritchard, R Sidhu, S Surgenor, W Thomas, A M Verma, A F Goddard

Endoscopy news



2052 Endoscopic transmural route for dissection of gastric submucosal tumors with extraluminal growth: experience in two cases

X Liu, T Chen, J Cheng, P Gao, Q Li, W Chen, Y Zhang, P Zhou, J Hu

Upper GI cancer

2055 Integrated genomic profiling and modelling for risk stratification in patients with advanced oesophagogastric adenocarcinoma

> D Hao, S He, K Harada, M P Pizzi, Y Lu, P Guan, L Chen, R Wang, S Zhang, M Sewastjanow-Silva, A Abdelhakeem, N Shanbhag, M Bhutani, G Han, JH Lee, S Zhao, B Weston, M Blum Murphy, R Waters, J S Estrella, S Roy-Chowdhuri, Q Gan, J-S Lee, G Peng, S M Hanash, G A Calin, X Song, J Zhang, S Song, L Wang, J A Ajani

Stomach

2066 Association between proton pump inhibitor use and gastric cancer: a population-based cohort study using two different types of nationwide databases in Korea

> S I Seo, CH Park, S C You, J Y Kim, K J Lee, J Kim, Y Kim, J J Yoo, W-W Seo, H S Lee, W G Shin

Inflammatory bowel disease

2076 The influence of proton pump inhibitor therapy on the outcome of infliximab therapy in inflammatory bowel disease: a patient-level meta-analysis of randomised controlled studies TX Lu, M Dapas, E Lin, T Peters, A Sakuraba

Nutrition

6

2085 Effect of green-Mediterranean diet on intrahepatic fat: the DIRECT PLUS randomised controlled trial

> A Yaskolka Meir, E Rinott, G Tsaban, H Zelicha, A Kaplan, P Rosen, I Shelef, I Youngster, A Shalev, M Blüher, U Ceglarek, M Stumvoll, K Tuohy, C Diotallevi, U Vrhovsek, F Hu, M Stampfer, I Shai

COVID-19

2096 Diet quality and risk and severity of COVID-19: a

prospective cohort study

J Merino, A D Joshi, L H Nguyen, E R Leeming, M Mazidi, D A Drew, R Gibson, M S Graham, C-H Lo, J Capdevila, B Murray, C Hu, S Selvachandran, A Hammers, S N Bhupathiraju, S V Sharma, C Sudre, C M Astley, J E Chavarro, S Kwon, W Ma, C Menni, W C Willett, S Ourselin, C | Steves, | Wolf, P W Franks, T D Spector, S Berry, A T Chan

Gut microbiota

2105 Human and preclinical studies of the host-gut microbiome co-metabolite hippurate as a marker and mediator of metabolic health

F Brial, J Chilloux, T Nielsen, S Vieira-Silva, G Falony, P Andrikopoulos, M Olanipekun, L Hoyles, F Djouadi, A L Neves, A Rodriguez-Martinez, G I Mouawad, N Pons, S Forslund, E Le-chatelier, A Le Lay, I Nicholson, T Hansen, T Hyötyläinen, K Clément, M Oresic, P Bork, S D Ehrlich, J Raes, O B Pedersen, D Gauguier, M-E Dumas

MORE CONTENTS ▶



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/



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

www.publicationethics.org



Colon

2115 Multicentre, prospective, randomised study comparing the diagnostic yield of colon capsule endoscopy versus CT colonography in a screening population (the TOPAZ study) BD Cash, MR Fleisher, S Fern, E Rajan, R Haithcock, D M Kastenberg, D Pound, N P Papageorgiou, I Fernández-Urién, I J Schmelkin, D K Rex

2123 F. nucleatum targets IncRNA ENO1-IT1 to promote glycolysis and oncogenesis in colorectal cancer

> J Hong, F Guo, S-Y Lu, C Shen, D Ma, X Zhang, Y Xie, T Yan, TC Yu, T Sun, Y Qian, M Zhong, J Chen, Y Peng, C Wang, X Zhou, J Liu, Q Liu, X Ma, Y-X Chen, H Chen, J-Y Fang

2138 Evaluating the utility of tumour mutational signatures for identifying hereditary colorectal cancer and polyposis syndrome carriers P Georgeson, B J Pope, C Rosty, M Clendenning, K Mahmood, J E Joo, R Walker, R A Hutchinson, S Preston, J Como, S Joseland, A K Win, F A Macrae, J L Hopper, D Mouradov, P Gibbs, O M Sieber, D E O'Sullivan, D R Brenner, S Gallinger, M A Jenkins, I M Winship,

Pancreas

D D Buchanan

2150 Identification and validation of a multivariable prediction model based on blood plasma and serum metabolomics for the distinction of chronic pancreatitis subjects from non-pancreas disease control subjects

M G Adam, G Beyer, N Christiansen, B Kamlage, C Pilarsky, M Distler, T Fahlbusch, A Chromik, F Klein, M Bahra, W Uhl, R Grützmann, U M Mahajan, F U Weiss, J Mayerle, M M Lerch

Hepatology

2159 Reticulon 3-mediated Chk2/p53 activation suppresses hepatocellular carcinogenesis and is blocked by hepatitis B virus

S Song, Y Shi, W Wu, H Wu, L Chang, P Peng, L Zhang, J Fan, J Gu, Y Ruan

2172 Cost-effectiveness of antiviral treatment in adult patients with immune-tolerant phase chronic hepatitis B

> H-L Kim, G-A Kim, J-A Park, H-R Kang, E-K Lee, Y-S Lim

2183 Hepatic Krüppel-like factor 16 (KLF16) \bigcirc targets PPAR α to improve steatohepatitis and insulin resistance

> N Sun, C Shen, L Zhang, X Wu, Y Yu, X Yang, C Yang, C Zhong, Z Gao, W Miao, Z Yang, W Gao, L Hu, K Williams, C Liu, Y Chang, Y Gao

Recent advances in clinical practice

2196 Alternative treatments for type 2 diabetes and associated metabolic diseases: medical

therapy or endoscopic duodenal mucosal remodelling?

A C G van Baar, S Meiring, F Holleman, D Hopkins, G Mingrone, J Devière, M Nieuwdorp, IIGHM Bergman

JournalScan

2205 GI highlights from the literature P I Smith

PostScript

2207 Letters



Editor's quiz: GI snapshot

2065 Focal pancreatic lesions in autoimmune pancreatitis and weight loss

A Aghdassi, Q T Tran, T Bulla, R Bülow, S Ribback, M M Lerch, T Pickartz

Electronic page

Correction: Risk factors for SARS-CoV-2 infection and course of COVID-19 disease in patients with IBD in the Veterans Affair Healthcare System