World Journal of *Gastroenterology*

World J Gastroenterol 2021 July 7; 27(25): 3693-3950





Published by Baishideng Publishing Group Inc

WJG

World Journal of VV01111 Jun. Gastroenterology

Contents

Weekly Volume 27 Number 25 July 7, 2021

OPINION REVIEW

3693	Approach to medical therapy in perianal Crohn's disease	
	Vasudevan A, Bruining DH, Loftus EV Jr, Faubion W, Ehman EC, Raffals L	

REVIEW

3705 Incorporating mucosal-associated invariant T cells into the pathogenesis of chronic liver disease Czaja AJ

3734 Artificial intelligence in small intestinal diseases: Application and prospects Yang Y, Li YX, Yao RQ, Du XH, Ren C

3748 Impact of the COVID-19 pandemic on inflammatory bowel disease patients: A review of the current evidence

Kumric M, Ticinovic Kurir T, Martinovic D, Zivkovic PM, Bozic J

Management of hepatitis B virus infection in patients with inflammatory bowel disease under 3762 immunosuppressive treatment Axiaris G, Zampeli E, Michopoulos S, Bamias G

MINIREVIEWS

- 3780 Worldwide management of hepatocellular carcinoma during the COVID-19 pandemic Inchingolo R, Acquafredda F, Tedeschi M, Laera L, Surico G, Surgo A, Fiorentino A, Spiliopoulos S, de'Angelis N, Memeo R
- 3790 Human immune repertoire in hepatitis B virus infection Zhan Q, Xu JH, Yu YY, Lo KK E, Felicianna, El-Nezami H, Zeng Z
- 3802 Emerging applications of radiomics in rectal cancer: State of the art and future perspectives Hou M, Sun JH
- 3815 Advances in paediatric nonalcoholic fatty liver disease: Role of lipidomics Di Sessa A, Riccio S, Pirozzi E, Verde M, Passaro AP, Umano GR, Guarino S, Miraglia del Giudice E, Marzuillo P
- 3825 Autoimmune pancreatitis and pancreatic cancer: Epidemiological aspects and immunological considerations Poddighe D
- 3837 Gut microbiota in obesity Liu BN, Liu XT, Liang ZH, Wang JH



Contents

Weekly Volume 27 Number 25 July 7, 2021

ORIGINAL ARTICLE

Basic Study

- 3851 Zinc oxide nanoparticles reduce the chemoresistance of gastric cancer by inhibiting autophagy Miao YH, Mao LP, Cai XJ, Mo XY, Zhu QQ, Yang FT, Wang MH
- 3863 PPARGC1A rs8192678 G>A polymorphism affects the severity of hepatic histological features and nonalcoholic steatohepatitis in patients with nonalcoholic fatty liver disease

Zhang RN, Shen F, Pan Q, Cao HX, Chen GY, Fan JG

Retrospective Cohort Study

3877 Does endoscopic intervention prevent subsequent gastrointestinal bleeding in patients with left ventricular assist devices? A retrospective study

Palchaudhuri S, Dhawan I, Parsikia A, Birati EY, Wald J, Siddique SM, Fisher LR

Retrospective Study

3888 Diverse expression patterns of mucin 2 in colorectal cancer indicates its mechanism related to the intestinal mucosal barrier

Gan GL, Wu HT, Chen WJ, Li CL, Ye QQ, Zheng YF, Liu J

3901 Clinical characteristics of patients in their forties who underwent surgical resection for colorectal cancer in Korea

Lee CS, Baek SJ, Kwak JM, Kim J, Kim SH

Observational Study

3913 Effect of gastric microbiota on quadruple Helicobacter pylori eradication therapy containing bismuth Niu ZY, Li SZ, Shi YY, Xue Y

META-ANALYSIS

3925 Endoscopic submucosal dissection vs endoscopic mucosal resection for colorectal polyps: A meta-analysis and meta-regression with single arm analysis

Lim XC, Nistala KRY, Ng CH, Lin SY, Tan DJH, Ho KY, Chong CS, Muthiah M

CASE REPORT

3940 Gastric schwannoma treated by endoscopic full-thickness resection and endoscopic purse-string suture: A case report

Lu ZY, Zhao DY

LETTER TO THE EDITOR

3948 Gastrointestinal cytomegalovirus disease secondary to measles in an immunocompetent infant Hung CM, Lee PH, Lee HM, Chiu CC



Contents

Weekly Volume 27 Number 25 July 7, 2021

ABOUT COVER

Editorial Board Member of World Journal of Gastroenterology, Paola De Nardi, MD, FASCRS, Doctor, Surgeon, Surgical Oncologist, Division of Gastrointestinal Surgery, IRCCS San Raffaele Scientific Institute, via Olgettina 60, Milan 20132, Italy. denardi.paola@hsr.it

AIMS AND SCOPE

The primary aim of World Journal of Gastroenterology (WJG, World J Gastroenterol) is to provide scholars and readers from various fields of gastroenterology and hepatology with a platform to publish high-quality basic and clinical research articles and communicate their research findings online. WJG mainly publishes articles reporting research results and findings obtained in the field of gastroenterology and hepatology and covering a wide range of topics including gastroenterology, hepatology, gastrointestinal endoscopy, gastrointestinal surgery, gastrointestinal oncology, and pediatric gastroenterology.

INDEXING/ABSTRACTING

The WJG is now indexed in Current Contents®/Clinical Medicine, Science Citation Index Expanded (also known as SciSearch®), Journal Citation Reports®, Index Medicus, MEDLINE, PubMed, PubMed Central, and Scopus. The 2021 edition of Journal Citation Report® cites the 2020 impact factor (IF) for WJG as 5.742; Journal Citation Indicator: 0.79; IF without journal self cites: 5.590; 5-year IF: 5.044; Ranking: 28 among 92 journals in gastroenterology and hepatology; and Quartile category: Q2. The WJG's CiteScore for 2020 is 6.9 and Scopus CiteScore rank 2020: Gastroenterology is 19/136.

RESPONSIBLE EDITORS FOR THIS ISSUE

Production Editor: Ying-Yi Yuan; Production Department Director: Xiang Li; Editorial Office Director: Ze-Mao Gong.

NAME OF JOURNAL	INSTRUCTIONS TO AUTHORS
World Journal of Gastroenterology	https://www.wjgnet.com/bpg/gerinfo/204
ISSN	GUIDELINES FOR ETHICS DOCUMENTS
ISSN 1007-9327 (print) ISSN 2219-2840 (online)	https://www.wignet.com/bpg/GerInfo/287
LAUNCH DATE	GUIDELINES FOR NON-NATIVE SPEAKERS OF ENGLISH
October 1, 1995	https://www.wignet.com/bpg/gerinfo/240
FREQUENCY	PUBLICATION ETHICS
Weekly	https://www.wjgnet.com/bpg/GerInfo/288
EDITORS-IN-CHIEF	PUBLICATION MISCONDUCT
Andrzej S Tarnawski, Subrata Ghosh	https://www.wjgnet.com/bpg/gerinfo/208
EDITORIAL BOARD MEMBERS	ARTICLE PROCESSING CHARGE
http://www.wjgnet.com/1007-9327/editorialboard.htm	https://www.wjgnet.com/bpg/gerinfo/242
PUBLICATION DATE	STEPS FOR SUBMITTING MANUSCRIPTS
July 7, 2021	https://www.wjgnet.com/bpg/GerInfo/239
COPYRIGHT	ONLINE SUBMISSION
© 2021 Baishideng Publishing Group Inc	https://www.f6publishing.com

© 2021 Baishideng Publishing Group Inc. All rights reserved. 7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA E-mail: bpgoffice@wjgnet.com https://www.wjgnet.com



WJG

World Journal of Gastroenterology

Submit a Manuscript: https://www.f6publishing.com

World J Gastroenterol 2021 July 7; 27(25): 3948-3950

DOI: 10.3748/wjg.v27.i25.3948

ISSN 1007-9327 (print) ISSN 2219-2840 (online)

LETTER TO THE EDITOR

Gastrointestinal cytomegalovirus disease secondary to measles in an immunocompetent infant

Chao-Ming Hung, Po-Huang Lee, Hui-Ming Lee, Chong-Chi Chiu

ORCID number: Chao-Ming Hung 0000-0001-8348-1432; Po-Huang Lee 0000-0002-5150-1136; Hui-Ming Lee 0000-0003-3298-7957; Chong-Chi Chiu 0000-0002-1696-2648.

Author contributions: Chiu CC conceived, wrote, and submitted the manuscript; Hung CM provided critical opinion; Lee PH revised the manuscript; Lee HM searched the related references during the preparation process.

Conflict-of-interest statement: The authors have nothing to disclose.

Open-Access: This article is an open-access article that was selected by an in-house editor and fully peer-reviewed by external reviewers. It is distributed in accordance with the Creative Commons Attribution NonCommercial (CC BY-NC 4.0) license, which permits others to distribute, remix, adapt, build upon this work non-commercially, and license their derivative works on different terms, provided the original work is properly cited and the use is non-commercial. See: htt p://creativecommons.org/License s/by-nc/4.0/

Manuscript source: Unsolicited manuscript

Specialty type: Infectious diseases

Chao-Ming Hung, Hui-Ming Lee, Chong-Chi Chiu, Department of General Surgery, E-Da Cancer Hospital, Kaohsiung 82445, Taiwan

Chao-Ming Hung, Po-Huang Lee, Hui-Ming Lee, College of Medicine, I-Shou University, Kaohsiung 82445, Taiwan

Po-Huang Lee, Department of Surgery, E-Da Hospital, Kaohsiung 82445, Taiwan

Chong-Chi Chiu, School of Medicine, College of Medicine, I-Shou University, Kaohsiung 82445, Taiwan

Corresponding author: Chong-Chi Chiu, MD, Professor, Surgeon, Department of General Surgery, E-Da Cancer Hospital, No. 21 Yi-Da Road, Jiao-Su Village, Yan-Chao District, Kaohsiung 82445, Taiwan. chiuchongchi@gmail.com

Abstract

Yang et al reported an immunocompetent infant with gastrointestinal cytomegalovirus disease secondary to measles infection. We express our opinion about the diagnosis and treatment of this rare disease.

Key Words: Gastrointestinal cytomegalovirus disease; Measles; Diarrhea; Immunocompetent infant; Rare disease

©The Author(s) 2021. Published by Baishideng Publishing Group Inc. All rights reserved.

Core Tip: We want to discuss the diagnosis and treatment issues in the rare gastrointestinal cytomegalovirus disease secondary to measles infection.

Citation: Hung CM, Lee PH, Lee HM, Chiu CC. Gastrointestinal cytomegalovirus disease secondary to measles in an immunocompetent infant. World J Gastroenterol 2021; 27(25): 3948-3950

URL: https://www.wjgnet.com/1007-9327/full/v27/i25/3948.htm DOI: https://dx.doi.org/10.3748/wjg.v27.i25.3948



WJG | https://www.wjgnet.com

Country/Territory of origin: Taiwan

Peer-review report's scientific quality classification

Grade A (Excellent): A Grade B (Very good): B Grade C (Good): 0 Grade D (Fair): 0 Grade E (Poor): 0

Received: April 23, 2021 Peer-review started: April 23, 2021 First decision: May 27, 2021 Revised: June 3, 2021 Accepted: June 16, 2021 Article in press: June 16, 2021 Published online: July 7, 2021

P-Reviewer: Dai DL, Nakaji K S-Editor: Ma YJ L-Editor: A P-Editor: Yuan YY



TO THE EDITOR

We read with interest the study by Yang *et al*[1]. They highlighted the differential diagnosis and pathological features of gastrointestinal cytomegalovirus (CMV) infection in a 9-mo-old boy. In our opinion, some concepts about the diagnosis and treatment should be emphasized.

Measles leads to the morbidity of diarrhea and may cause dehydration and secondary malnutrition[2]. Its incidence is about 8%[3]. Instead, uncontrolled diarrhea caused by postnatally infected CMV in immunocompetent infants has been rarely reported. Differential diagnosis of the diarrhea cause is a great challenge to pediatric physicians, especially when most infants with neither endoscopic exam nor pathological confirmation of gastrointestinal CMV infection.

To our knowledge, most measles-infected patients only need supportive management, including fluid supply, antipyretics, and prevention of superimposed bacterial infections. There is no specific antiviral therapy. Although the efficacy in preventing and treating CMV infection has been proven in transplant recipients, Ganciclovir has not been supported effectively in treating pediatric patients[4]. It has been administered to infants with congenital infection^[5] and cholestasis^[6]; however, there are no controlled studies to support its effectiveness^[5]. Fortunately, this 9-mo-old boy recovered completely after intravenous Ganciclovir administration with no evident side effects.

Low serum vitamin A level has been a common situation among children, even in some developed countries, e.g., United States. Significant lower levels were encountered in critically ill children. Vitamin A deficit hinders the recovery course and increases measles-related complications. Besides, measles infection would further deteriorate the deficit of vitamin A serum concentration and aggravate the severity of xerophthalmia^[7]. In a randomized controlled trial, lower morbidities and mortality have been found in measles-infected children after vitamin A supplement[8]. Thus, the World Health Organization recommended vitamin A administration to all acute measles-infected children[9]. We also suggest the same management to this 9-mo-old boy during the treatment course.

Vaccination is the most effective strategy to interrupt this virus transmission because it could lead to herd immunity, which must be maintained above 85% to 95% [10]. Thus, encouragement of measles vaccination is essential to avoid the occurrence of similar episodes.

REFERENCES

- Yang QH, Ma XP, Dai DL, Bai DM, Zou Y, Liu SX, Song JM. Gastrointestinal cytomegalovirus disease secondary to measles in an immunocompetent infant: A case report. World J Gastroenterol 2021; 27: 1655-1663 [PMID: 33958850 DOI: 10.3748/wjg.v27.i15.1655]
- Jackson BD, Black RE. Available studies fail to provide strong evidence of increased risk of diarrhea mortality due to measles in the period 4-26 weeks after measles rash onset. BMC Public Health 2017; 17: 783 [PMID: 29143685 DOI: 10.1186/s12889-017-4745-2]
- 3 Misin A, Antonello RM, Di Bella S, Campisciano G, Zanotta N, Giacobbe DR, Comar M, Luzzati R. Measles: An Overview of a Re-Emerging Disease in Children and Immunocompromised Patients. Microorganisms 2020; 8 [PMID: 32085446 DOI: 10.3390/microorganisms8020276]
- Canpolat C, Culbert S, Gardner M, Whimbey E, Tarrand J, Chan KW. Ganciclovir prophylaxis for cytomegalovirus infection in pediatric allogeneic bone marrow transplant recipients. Bone Marrow Transplant 1996; 17: 589-593 [PMID: 8722360]
- Whitley RJ, Cloud G, Gruber W, Storch GA, Demmler GJ, Jacobs RF, Dankner W, Spector SA, Starr S, Pass RF, Stagno S, Britt WJ, Alford C Jr, Soong S, Zhou XJ, Sherrill L, FitzGerald JM, Sommadossi JP. Ganciclovir treatment of symptomatic congenital cytomegalovirus infection: results of a phase II study. National Institute of Allergy and Infectious Diseases Collaborative Antiviral Study Group. J Infect Dis 1997; 175: 1080-1086 [PMID: 9129069 DOI: 10.1086/516445]
- Fischler B, Casswall TH, Malmborg P, Nemeth A. Ganciclovir treatment in infants with 6 cytomegalovirus infection and cholestasis. J Pediatr Gastroenterol Nutr 2002; 34: 154-157 [PMID: 11840032 DOI: 10.1097/00005176-200202000-00009]
- Mayo-Wilson E, Imdad A, Herzer K, Yakoob MY, Bhutta ZA. Vitamin A supplements for 7 preventing mortality, illness, and blindness in children aged under 5: systematic review and metaanalysis. BMJ 2011; 343: d5094 [PMID: 21868478 DOI: 10.1136/bmj.d5094]
- Hussey GD, Klein M. A randomized, controlled trial of vitamin A in children with severe measles. N 8 Engl J Med 1990; 323: 160-164 [PMID: 2194128 DOI: 10.1056/NEJM199007193230304]
- 9 Huiming Y, Chaomin W, Meng M. Vitamin A for treating measles in children. Cochrane Database Syst Rev 2005; CD001479 [PMID: 16235283 DOI: 10.1002/14651858.CD001479.pub3]



Hung CM et al. Gastrointestinal cytomegalovirus disease secondary to measles infection

10 Katz SL, Hinman AR. Summary and conclusions: measles elimination meeting, 16-17 March 2000. J Infect Dis 2004; 189 Suppl 1: S43-S47 [PMID: 15106088 DOI: 10.1086/377696]





Published by Baishideng Publishing Group Inc 7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA Telephone: +1-925-3991568 E-mail: bpgoffice@wjgnet.com Help Desk: https://www.f6publishing.com/helpdesk https://www.wjgnet.com

