

World Journal of *Gastrointestinal Oncology*

World J Gastrointest Oncol 2021 December 15; 13(12): 1850-2222



FRONTIER

- 1850 Management of obstructive colon cancer: Current status, obstacles, and future directions
Yoo RN, Cho HM, Kye BH

REVIEW

- 1863 Role of endoscopic ultrasound in anticancer therapy: Current evidence and future perspectives
Bratanic A, Bozic D, Mestrovic A, Martinovic D, Kumric M, Ticinovic Kurir T, Bozic J
- 1880 Pancreatic intraductal papillary mucinous neoplasms: Current diagnosis and management
Jabłońska B, Szmigiel P, Mrowiec S
- 1896 Combined treatments in hepatocellular carcinoma: Time to put them in the guidelines?
Sparchez Z, Radu P, Bartos A, Nenu I, Craciun R, Mocan T, Horhat A, Spârchez M, Dufour JF
- 1919 Unique situation of hepatocellular carcinoma in Egypt: A review of epidemiology and control measures
Ezzat R, Eltabbakh M, El Kassas M
- 1939 Moving forward in the treatment of cholangiocarcinoma
Manzia TM, Parente A, Lenci I, Sensi B, Milana M, Gazia C, Signorello A, Angelico R, Grassi G, Tisone G, Baiocchi L
- 1956 Solid extraintestinal malignancies in patients with inflammatory bowel disease
Mala A, Foteinogiannopoulou K, Koutroubakis IE
- 1981 Mesenchymal stem cell-derived exosomes for gastrointestinal cancer
Zhao LX, Zhang K, Shen BB, Li JN
- 1997 Diabetes mellitus contribution to the remodeling of the tumor microenvironment in gastric cancer
Rojas A, Lindner C, Schneider I, González I, Araya H, Morales E, Gómez M, Urdaneta N, Araya P, Morales MA
- 2013 Macrophages play a role in inflammatory transformation of colorectal cancer
Lu L, Liu YJ, Cheng PQ, Hu D, Xu HC, Ji G

MINIREVIEWS

- 2029 Advancement of chimeric antigen receptor-natural killer cells targeting hepatocellular carcinoma
Dai K, Wu Y, She S, Zhang Q
- 2038 Current status of first-line therapy, anti-angiogenic therapy and its combinations of other agents for unresectable hepatocellular carcinoma
Alqahtani SA, Colombo MG

- 2050** Endoscopic or percutaneous biliary drainage in hilar cholangiocarcinoma: When and how?
Mocan T, Horhat A, Mois E, Graur F, Tefas C, Craciun R, Nenu I, Spârchez M, Sparchez Z
- 2064** Current status of non-surgical treatment of locally advanced pancreatic cancer
Spiliopoulos S, Zurlo MT, Casella A, Laera L, Surico G, Surgo A, Fiorentino A, de'Angelis N, Calbi R, Memeo R, Inchingolo R
- 2076** Prospect of lenvatinib for unresectable hepatocellular carcinoma in the new era of systemic chemotherapy
Sho T, Morikawa K, Kubo A, Tokuchi Y, Kitagataya T, Yamada R, Shigesawa T, Kimura M, Nakai M, Suda G, Natsuizaka M, Ogawa K, Sakamoto N

ORIGINAL ARTICLE**Basic Study**

- 2088** Dysbiosis of the duodenal microbiota as a diagnostic marker for pancreaticobiliary cancer
Sugimoto M, Abe K, Takagi T, Suzuki R, Konno N, Asama H, Sato Y, Irie H, Watanabe K, Nakamura J, Kikuchi H, Takasumi M, Hashimoto M, Kato T, Kobashi R, Hikichi T, Ohira H
- 2101** MutL homolog 1 methylation and microsatellite instability in sporadic colorectal tumors among Filipinos
Cabral LKD, Mapua CA, Natividad FF, Sukowati CHC, Cortez ER, Enriquez MLD
- 2114** Propofol induces ferroptosis and inhibits malignant phenotypes of gastric cancer cells by regulating miR-125b-5p/STAT3 axis
Liu YP, Qiu ZZ, Li XH, Li EY
- 2129** BRAF^{V600E} mutant colorectal cancer cells mediate local immunosuppressive microenvironment through exosomal long noncoding RNAs
Zhi J, Jia XJ, Yan J, Wang HC, Feng B, Xing HY, Jia YT

Retrospective Cohort Study

- 2149** Hepatocellular carcinoma surveillance and quantile regression for determinants of underutilisation in at-risk Australian patients
Low ES, Apostolov R, Wong D, Lin S, Kutaiba N, Grace JA, Sinclair M
- 2161** Comparison of tumor regression grading systems for locally advanced gastric adenocarcinoma after neoadjuvant chemotherapy
Liu ZN, Wang YK, Zhang L, Jia YN, Fei S, Ying XJ, Zhang Y, Li SX, Sun Y, Li ZY, Ji JF

Retrospective Study

- 2180** Clinical features of intracerebral hemorrhage in patients with colorectal cancer and its underlying pathogenesis
Deng XH, Li J, Chen SJ, Xie YJ, Zhang J, Cen GY, Song YT, Liang ZJ

Prospective Study

- 2190** Anatomic resection improved the long-term outcome of hepatocellular carcinoma patients with microvascular invasion: A prospective cohort study
Zhou JM, Zhou CY, Chen XP, Zhang ZW

SYSTEMATIC REVIEWS

- 2203** Minimally invasive surgical treatment of intrahepatic cholangiocarcinoma: A systematic review
Patrone R, Izzo F, Palaia R, Granata V, Nasti G, Ottaiano A, Pasta G, Belli A

LETTER TO THE EDITOR

- 2216** Gender differences in the relationship between alcohol consumption and gastric cancer risk are uncertain and not well-delineated
Verma HK, Bhaskar L
- 2219** Critical biomarkers of hepatocellular carcinoma in body fluids and gut microbiota
Nath LR, Murali M, Nair B

ABOUT COVER

Editorial Board Member of *World Journal of Gastrointestinal Oncology*, Ladan Teimoori-Toolabi, MD, PhD, Associate Professor, Department of Molecular Medicine, Pasteur Institute of Iran, Tehran 1316943551, Iran.
iteimoori@pasteur.ac.ir

AIMS AND SCOPE

The primary aim of *World Journal of Gastrointestinal Oncology (WJGO, World J Gastrointest Oncol)* is to provide scholars and readers from various fields of gastrointestinal oncology with a platform to publish high-quality basic and clinical research articles and communicate their research findings online.

WJGO mainly publishes articles reporting research results and findings obtained in the field of gastrointestinal oncology and covering a wide range of topics including liver cell adenoma, gastric neoplasms, appendiceal neoplasms, biliary tract neoplasms, hepatocellular carcinoma, pancreatic carcinoma, cecal neoplasms, colonic neoplasms, colorectal neoplasms, duodenal neoplasms, esophageal neoplasms, gallbladder neoplasms, *etc.*

INDEXING/ABSTRACTING

The *WJGO* is now indexed in Science Citation Index Expanded (also known as SciSearch®), PubMed, PubMed Central, and Scopus. The 2021 edition of Journal Citation Reports® cites the 2020 impact factor (IF) for *WJGO* as 3.393; IF without journal self cites: 3.333; 5-year IF: 3.519; Journal Citation Indicator: 0.5; Ranking: 163 among 242 journals in oncology; Quartile category: Q3; Ranking: 60 among 92 journals in gastroenterology and hepatology; and Quartile category: Q3. The *WJGO*'s CiteScore for 2020 is 3.3 and Scopus CiteScore rank 2020: Gastroenterology is 70/136.

RESPONSIBLE EDITORS FOR THIS ISSUE

Production Editor: *Ying-Yi Yuan*; Production Department Director: *Xiang Li*; Editorial Office Director: *Ya-Juan Ma*.

NAME OF JOURNAL

World Journal of Gastrointestinal Oncology

ISSN

ISSN 1948-5204 (online)

LAUNCH DATE

February 15, 2009

FREQUENCY

Monthly

EDITORS-IN-CHIEF

Rosa M Jimenez Rodriguez, Pashtoon M Kasi, Monjur Ahmed, Florin Burada

EDITORIAL BOARD MEMBERS

<https://www.wjgnet.com/1948-5204/editorialboard.htm>

PUBLICATION DATE

December 15, 2021

COPYRIGHT

© 2021 Baishideng Publishing Group Inc

INSTRUCTIONS TO AUTHORS

<https://www.wjgnet.com/bpg/gerinfo/204>

GUIDELINES FOR ETHICS DOCUMENTS

<https://www.wjgnet.com/bpg/GerInfo/287>

GUIDELINES FOR NON-NATIVE SPEAKERS OF ENGLISH

<https://www.wjgnet.com/bpg/gerinfo/240>

PUBLICATION ETHICS

<https://www.wjgnet.com/bpg/GerInfo/288>

PUBLICATION MISCONDUCT

<https://www.wjgnet.com/bpg/gerinfo/208>

ARTICLE PROCESSING CHARGE

<https://www.wjgnet.com/bpg/gerinfo/242>

STEPS FOR SUBMITTING MANUSCRIPTS

<https://www.wjgnet.com/bpg/GerInfo/239>

ONLINE SUBMISSION

<https://www.f6publishing.com>



Gender differences in the relationship between alcohol consumption and gastric cancer risk are uncertain and not well-delineated

Henu Kumar Verma, LVKS Bhaskar

ORCID number: Henu Kumar Verma 0000-0003-1130-8783; LVKS Bhaskar 0000-0003-2977-6454.

Author contributions: Verma HK and Bhaskar LVKS both the author wrote and revised the letter.

Conflict-of-interest statement: The authors declare no conflict of interest.

Country/Territory of origin: Italy

Specialty type: Oncology

Provenance and peer review: Invited article; Externally peer reviewed.

Peer-review report's scientific quality classification

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

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

Henu Kumar Verma, Department of Immunopathology, Institute of lungs Biology and Disease, Comprehensive Pneumology Center, Helmholtz Zentrum, Neuherberg 85764, Munich, Germany

LVKS Bhaskar, Department of Zoology, Guru Ghasidas Vishwavidyalaya, Bilaspur 495001, Chhattisgarh, India

Corresponding author: Henu Kumar Verma, PhD, Research Scientist, Department of Immunopathology, Institute of lungs Biology and Disease, Comprehensive Pneumology Center, Helmholtz Zentrum, Ingolstädter Landstrasse 1, Neuherberg 85764, Munich, Germany.
henu.verma@yahoo.com

Abstract

The role of alcoholic and other beverage consumption in the etiology of gastric cancer is unknown. Several studies have summarized and established a significant association between heavy alcohol consumption and gastric cancer risk, but evidence on alcohol-related cancer risk is conflicting.

Key Words: Alcohol; Gastric cancer; Meta-analysis; Gender and alcohol intake; Alcohol consumption

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

Core Tip: Alcohol consumption among adult men and women is consistently linked to an increased risk of gastric cancer. Its role as a confounding factor in the gastric cancer burden is frequently overlooked. Although many cancers are genetically determined, most cancers are caused by interactions between the host and environmental/lifestyle factors.

Citation: Verma HK, Bhaskar L. Gender differences in the relationship between alcohol consumption and gastric cancer risk are uncertain and not well-delineated. *World J Gastrointest Oncol* 2021; 13(12): 2216-2218

URL: <https://www.wjgnet.com/1948-5204/full/v13/i12/2216.htm>

DOI: <https://dx.doi.org/10.4251/wjgo.v13.i12.2216>

on different terms, provided the original work is properly cited and the use is non-commercial. See: <http://creativecommons.org/licenses/by-nc/4.0/>

Received: May 11, 2021

Peer-review started: May 11, 2021

First decision: June 16, 2021

Revised: June 17, 2021

Accepted: November 3, 2021

Article in press: November 3, 2021

Published online: December 15, 2021

P-Reviewer: Kang XJ, Tung TH

S-Editor: Gao CC

L-Editor: Kerr C

P-Editor: Gao CC



TO THE EDITOR

Cancer is a complex disease that arises from interactions between genetic and environmental factors. There is overwhelming evidence that alcohol consumption affects cancer risk. According to the 4th edition of the European Code against Cancer, not drinking alcohol is better for cancer prevention[1]. We read the recent publication on “Sex as an effect modifier in the association between alcohol intake and gastric cancer risk” by Bae[2]. I sincerely appreciate the author for providing relevant information about the relationship between alcohol consumption and the risk of gastric cancer in men and women. It has been of great interest to us. In this systematic review and meta-analysis, the authors included ten Asian, seven European and three American cohort studies comprising 27 cohorts, making the study more robust.

The meta-analysis showed that overall alcohol intake increased the risk of gastric cancer with a summary risk ratio of 1.13 [95% confidence interval (CI): 1.04-1.23]. However, subgroup analysis by gender demonstrated higher relative risk (RR) in male cohorts (RR = 1.18, 95%CI: 1.06-1.32, $I^2 = 55.5\%$) than in female cohorts (RR = 1.07, 95%CI: 0.96-1.19, $I^2 = 0.0\%$). Several previous meta-analyses that have investigated the relationship between alcohol consumption and gastric cancer risk were inconclusive. Previous meta-analyses demonstrated no association between alcohol drinking and gastric cancer risk in overall and gender-stratified analyses[3]. In contrast to this, heavy alcohol consumption significantly increased the risk of gastric cancer in both men and women[4]. Subsequent meta-analyses indicated that alcohol consumption was associated with an increased risk of gastric cancer in men but not in women[5,6]. Recently, Kim *et al*[7] shown that high alcohol consumption of alcohol (≥ 20 g/d for women or ≥ 40 g/d for men) significantly increased the risk of gastric cancer. Further, large-scale meta-analyses by Han *et al*[8] found a protective effect of alcohol consumption in Europe and a significant harmful impact in men in America. That depends on other confounding factors, including age, education level, smoking status, and body mass index.

Although the systematic review and meta-analyses have linked gastric cancer risk with alcohol consumption, gender differences in the relationship between alcohol consumption and gastric cancer risk are uncertain and not well-delineated. Indeed, hormonal, genetic and environmental differences influence how men and women consume alcohol[9]. While men are more likely to drink excessive amounts of alcohol, women are more likely to abstain for long periods. Bae[2] has not considered the frequency of heavy and light alcohol drinking habits in men and women, which is the main factor that determines modulating effect of sex on the relationship between alcohol consumption and gastric cancer risk[2]. More research with critical confounding factors such as drinking intensity is needed to provide a more precise relationship between alcohol consumption and the risk of gastric cancer in men and women.

REFERENCES

- 1 **Scoccianti C**, Cecchini M, Anderson AS, Berrino F, Boutron-Ruault MC, Espina C, Key TJ, Leitzmann M, Norat T, Powers H, Wiseman M, Romieu I. European Code against Cancer 4th Edition: Alcohol drinking and cancer. *Cancer Epidemiol* 2016; **45**: 181-188 [PMID: 27816465 DOI: 10.1016/j.canep.2016.09.011]
- 2 **Bae JM**. Sex as an effect modifier in the association between alcohol intake and gastric cancer risk. *World J Gastrointest Oncol* 2021; **13**: 453-461 [PMID: 34040705 DOI: 10.4251/wjgo.v13.i5.453]
- 3 **Tramacere I**, Negri E, Pelucchi C, Bagnardi V, Rota M, Scotti L, Islami F, Corrao G, La Vecchia C, Boffetta P. A meta-analysis on alcohol drinking and gastric cancer risk. *Ann Oncol* 2012; **23**: 28-36 [PMID: 21536659 DOI: 10.1093/annonc/mdr135]
- 4 **He Z**, Zhao TT, Xu HM, Wang ZN, Xu YY, Song YX, Ni ZR, Xu H, Yin SC, Liu XY, Miao ZF. Association between alcohol consumption and the risk of gastric cancer: a meta-analysis of prospective cohort studies. *Oncotarget* 2017; **8**: 84459-84472 [PMID: 29137439 DOI: 10.18632/oncotarget.20880]
- 5 **Wang PL**, Xiao FT, Gong BC, Liu FN. Alcohol drinking and gastric cancer risk: a meta-analysis of observational studies. *Oncotarget* 2017; **8**: 99013-99023 [PMID: 29228746 DOI: 10.18632/oncotarget.20918]
- 6 **Li Y**, Eshak ES, Shirai K, Liu K, Dong JY, Iso H, Tamakoshi A; JACC Study Group. Alcohol Consumption and Risk of Gastric Cancer: The Japan Collaborative Cohort Study. *J Epidemiol* 2021; **31**: 30-36 [PMID: 31902851 DOI: 10.2188/jea.JE20190304]
- 7 **Kim MH**, Kim SA, Park CH, Eun CS, Han DS, Kim YS, Song KS, Choi BY, Kim HJ. Alcohol consumption and gastric cancer risk in Korea: a case-control study. *Nutr Res Pract* 2019; **13**: 425-433 [PMID: 31583062 DOI: 10.4162/nrp.2019.13.5.425]
- 8 **Han X**, Xiao L, Yu Y, Chen Y, Shu HH. Alcohol consumption and gastric cancer risk: a meta-analysis

of prospective cohort studies. *Oncotarget* 2017; **8**: 83237-83245 [PMID: [29137337](#) DOI: [10.18632/oncotarget.19177](#)]

- 9 **Rao VR**, Bhaskar LV, Annapurna C, Reddy AG, Thangaraj K, Rao AP, Singh L. Single nucleotide polymorphisms in alcohol dehydrogenase genes among some Indian populations. *Am J Hum Biol* 2007; **19**: 338-344 [PMID: [17421009](#) DOI: [10.1002/ajhb.20589](#)]



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>

