World Journal of *Gastroenterology*

World J Gastroenterol 2024 March 14; 30(10): 1261-1469





Published by Baishideng Publishing Group Inc

WJG

World Journal of Woriu journe Gastroenterology

Contents

Weekly Volume 30 Number 10 March 14, 2024

EDITORIAL

1261	Bridging the gap: Unveiling the crisis of physical inactivity in inflammatory bowel diseases	
	Stafie R, Singeap AM, Rotaru A, Stanciu C, Trifan A	
1266	Double role of depression in gastric cancer: As a causative factor and as consequence	
	Christodoulidis G, Konstantinos-Eleftherios K, Marina-Nektaria K	
1270	Capsule endoscopy and panendoscopy: A journey to the future of gastrointestinal endoscopy	
	Rosa B, Cotter J	
1280	Vonoprazan-amoxicillin dual regimen with <i>Saccharomyces boulardii</i> as a rescue therapy for <i>Helicobacter pylori</i> : Current perspectives and implications	
	Dirjayanto VJ, Audrey J, Simadibrata DM	
1287	Women health and microbiota: Different aspects of well-being	
	Nannini G, Amedei A	
1291	Nomograms and prognosis for superficial esophageal squamous cell carcinoma	
1271	Lin HT, Abdelbaki A, Krishna SG	
	REVIEW	
1295		
1295	REVIEW Overview of the immunological mechanisms in hepatitis B virus reactivation: Implications for disease	
1295	REVIEW Overview of the immunological mechanisms in hepatitis B virus reactivation: Implications for disease progression and management strategies	
	REVIEW Overview of the immunological mechanisms in hepatitis B virus reactivation: Implications for disease progression and management strategies <i>Ma H, Yan QZ, Ma JR, Li DF, Yang JL</i>	
	REVIEW Overview of the immunological mechanisms in hepatitis B virus reactivation: Implications for disease progression and management strategies <i>Ma H, Yan QZ, Ma JR, Li DF, Yang JL</i> Optimizing nutrition in hepatic cirrhosis: A comprehensive assessment and care approach	
1313	 REVIEW Overview of the immunological mechanisms in hepatitis B virus reactivation: Implications for disease progression and management strategies <i>Ma H, Yan QZ, Ma JR, Li DF, Yang JL</i> Optimizing nutrition in hepatic cirrhosis: A comprehensive assessment and care approach <i>Mendez-Guerrero O, Carranza-Carrasco A, Chi-Cervera LA, Torre A, Navarro-Alvarez N</i> Optimizing prediction models for pancreatic fistula after pancreatectomy: Current status and future 	
1313	 REVIEW Overview of the immunological mechanisms in hepatitis B virus reactivation: Implications for disease progression and management strategies <i>Ma H, Yan QZ, Ma JR, Li DF, Yang JL</i> Optimizing nutrition in hepatic cirrhosis: A comprehensive assessment and care approach <i>Mendez-Guerrero O, Carranza-Carrasco A, Chi-Cervera LA, Torre A, Navarro-Alvarez N</i> Optimizing prediction models for pancreatic fistula after pancreatectomy: Current status and future perspectives <i>Yang F, Windsor JA, Fu DL</i> 	
1313	REVIEW Overview of the immunological mechanisms in hepatitis B virus reactivation: Implications for disease progression and management strategies <i>Ma H, Yan QZ, Ma JR, Li DF, Yang JL</i> Optimizing nutrition in hepatic cirrhosis: A comprehensive assessment and care approach <i>Mendez-Guerrero O, Carranza-Carrasco A, Chi-Cervera LA, Torre A, Navarro-Alvarez N</i> Optimizing prediction models for pancreatic fistula after pancreatectomy: Current status and future perspectives	

- 1346 Cumulative effects of excess high-normal alanine aminotransferase levels in relation to new-onset metabolic dysfunction-associated fatty liver disease in China Chen JF, Wu ZQ, Liu HS, Yan S, Wang YX, Xing M, Song XQ, Ding SY
- 1358 Time trends and outcomes of gastrostomy placement in a Swedish national cohort over two decades Skogar ML, Sundbom M



Contents

Weekly Volume 30 Number 10 March 14, 2024

Retrospective Study

1368 Stage at diagnosis of colorectal cancer through diagnostic route: Who should be screened?

Agatsuma N, Utsumi T, Nishikawa Y, Horimatsu T, Seta T, Yamashita Y, Tanaka Y, Inoue T, Nakanishi Y, Shimizu T, Ohno M, Fukushima A, Nakayama T, Seno H

Observational Study

1377 Differential diagnosis of Crohn's disease and intestinal tuberculosis based on ATR-FTIR spectroscopy combined with machine learning

Li YP, Lu TY, Huang FR, Zhang WM, Chen ZQ, Guang PW, Deng LY, Yang XH

Prospective Study

1393 Establishment and validation of an adherence prediction system for lifestyle interventions in non-alcoholic fatty liver disease

Zeng MH, Shi QY, Xu L, Mi YQ

Basic Study

1405 Alkaline sphingomyelinase deficiency impairs intestinal mucosal barrier integrity and reduces antioxidant capacity in dextran sulfate sodium-induced colitis

Tian Y, Li X, Wang X, Pei ST, Pan HX, Cheng YQ, Li YC, Cao WT, Petersen JDD, Zhang P

- 1420 Preliminary exploration of animal models of congenital choledochal cysts Zhang SH, Zhang YB, Cai DT, Pan T, Chen K, Jin Y, Luo WJ, Huang ZW, Chen QJ, Gao ZG
- 1431 Serotonin receptor 2B induces visceral hyperalgesia in rat model and patients with diarrhea-predominant irritable bowel syndrome

Li ZY, Mao YQ, Hua Q, Sun YH, Wang HY, Ye XG, Hu JX, Wang YJ, Jiang M

META-ANALYSIS

Shear-wave elastography to predict hepatocellular carcinoma after hepatitis C virus eradication: A 1450 systematic review and meta-analysis

Esposto G, Santini P, Galasso L, Mignini I, Ainora ME, Gasbarrini A, Zocco MA

LETTER TO THE EDITOR

1461 Current considerations on intraductal papillary neoplasms of the bile duct and pancreatic duct Pavlidis ET. Galanis IN. Pavlidis TE

1466 Are we ready to use new endoscopic scores for ulcerative colitis? Quera R, Núñez F P



Contents

Weekly Volume 30 Number 10 March 14, 2024

ABOUT COVER

Editorial Board Member of World Journal of Gastroenterology, Toru Mizuguchi, MD, PhD, Professor, Surgeon, Department of Nursing, Division of Surgical Science, Sapporo Medical University Postgraduate School of Health Science, Sapporo, Hokkaido 0608556, Japan. tmizu@sapmed.ac.jp

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 abstracted and indexed in Science Citation Index Expanded (SCIE), MEDLINE, PubMed, PubMed Central, Scopus, Reference Citation Analysis, China Science and Technology Journal Database, and Superstar Journals Database. The 2023 edition of Journal Citation Reports® cites the 2022 impact factor (IF) for WJG as 4.3; Quartile category: Q2. The WJG's CiteScore for 2021 is 8.3.

RESPONSIBLE EDITORS FOR THIS ISSUE

Production Editor: Ying-Yi Yuan; Production Department Director: Xiang Li; Cover Editor: Jia-Ru Fan.

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.wjgnet.com/bpg/GerInfo/287
LAUNCH DATE	GUIDELINES FOR NON-NATIVE SPEAKERS OF ENGLISH
October 1, 1995	https://www.wjgnet.com/bpg/gerinfo/240
FREQUENCY	PUBLICATION ETHICS
Weekly	https://www.wjgnet.com/bpg/GerInfo/288
EDITORS-IN-CHIEF	PUBLICATION MISCONDUCT
Andrzej S Tarnawski	https://www.wjgnet.com/bpg/gerinfo/208
EXECUTIVE ASSOCIATE EDITORS-IN-CHIEF	POLICY OF CO-AUTHORS
Xian-Jun Yu (Pancreatic Oncology), Jian-Gao Fan (Chronic Liver Disease), Hou- Bao Liu (Biliary Tract Disease)	https://www.wjgnet.com/bpg/GerInfo/310
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
March 14, 2024	https://www.wjgnet.com/bpg/GerInfo/239
COPYRIGHT	ONLINE SUBMISSION
© 2024 Baishideng Publishing Group Inc	https://www.f6publishing.com
PUBLISHING PARTNER	PUBLISHING PARTNER'S OFFICIAL WEBSITE
Shanghai Pancreatic Cancer Institute and Pancreatic Cancer Institute, Fudan	https://www.shca.org.cn
University Biliary Tract Disease Institute, Fudan University	https://www.zs-hospital.sh.cn
© 2024 Baishideng Publishing Group Inc. All rights reserved. 70	141 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA

E-mail: office@baishideng.com https://www.wjgnet.com



WJG

World Journal of Gastroenterology

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

World J Gastroenterol 2024 March 14; 30(10): 1461-1465

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

DOI: 10.3748/wjg.v30.i10.1461

LETTER TO THE EDITOR

Current considerations on intraductal papillary neoplasms of the bile duct and pancreatic duct

Efstathios T Pavlidis, Ioannis N Galanis, Theodoros E Pavlidis

Specialty type: Gastroenterology and hepatology

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

Peer-review model: Single blind

Peer-review report's scientific quality classification

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

P-Reviewer: Mikulic D, Croatia

Received: January 2, 2024 Peer-review started: January 2, 2024 First decision: January 17, 2024 Revised: January 19, 2024 Accepted: February 26, 2024 Article in press: February 26, 2024 Published online: March 14, 2024



Efstathios T Pavlidis, Ioannis N Galanis, Theodoros E Pavlidis, 2nd Propedeutic Department of Surgery, Hippokration General Hospital, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki 54642, Greece

Corresponding author: Theodoros E Pavlidis, Doctor, PhD, Emeritus Professor, Surgeon, 2nd Propedeutic Department of Surgery, Hippokration General Hospital, School of Medicine, Aristotle University of Thessaloniki, Konstantinoupoleos 49, Thessaloniki 54642, Greece. pavlidth@auth.gr

Abstract

Pancreatobiliary intraductal papillary neoplasms (IPNs) represent precursors of pancreatic cancer or bile duct cholangiocarcinoma that can be detected and treated. Despite advances in diagnostic methods, identifying these premalignant lesions is still challenging for treatment providers. Modern imaging, biomarkers and molecular tests for genomic alterations can be used for diagnosis and followup. Surgical intervention in combination with new chemotherapeutic agents is considered the optimal treatment for malignant cases. The balance between the risk of malignancy and any risk of resection guides management policy; therefore, treatment should be individualized based on a meticulous preoperative assessment of high-risk stigmata. IPN of the bile duct is more aggressive; thus, early diagnosis and surgery are crucial. The conservative management of low-risk pancreatic branch-duct lesions is safe and effective.

Key Words: Biliary tree diseases; Pancreatic cystic neoplasms; Biliary tract neoplasms; Extrahepatic cholangiocarcinoma; Pancreatic adenocarcinoma

©The Author(s) 2024. Published by Baishideng Publishing Group Inc. All rights reserved.

Core Tip: The balance between overlooking a potential malignancy and the outcomes of a high-risk major operation should be accounted for in the decision-making process of the therapeutic plan. Despite the use of modern diagnostic modalities, overtreatment may occur in many patients; thus, the correct management of pancreatobiliary intraductal papillary neoplasms (IPNs) must be individualized. The proper management of pancreatobiliary IPNs is based on a precise preoperative diagnosis that correctly evaluates the defined high-risk stigmata and worrisome features.



WJG https://www.wjgnet.com

Citation: Pavlidis ET, Galanis IN, Pavlidis TE. Current considerations on intraductal papillary neoplasms of the bile duct and pancreatic duct. *World J Gastroenterol* 2024; 30(10): 1461-1465 URL: https://www.wjgnet.com/1007-9327/full/v30/i10/1461.htm DOI: https://dx.doi.org/10.3748/wjg.v30.i10.1461

TO THE EDITOR

We read the paper by Mocchegiani *et al*[1] with great interest, and we would like to congratulate the authors for their very nice work on intraductal papillary neoplasm of the bile duct (IPNB), which is an updated impressive approach. This neoplasm resembles the pancreatic intraductal papillary mucinous neoplasm (IPMN). Taking this opportunity, we will make some considerable comments on pancreatobiliary intraductal papillary neoplasms since both IPNB and pancreatic IPMN have a common genomic background, corresponding manifestations and several similarities; however, peculiarities and some differences exist in their biological behavior and subsequent management. IPMN was first described by Ohashi *et al*[2] in 1982 as a different entity from mucinous cystic neoplasms and cancer and is considered a premalignant lesion of pancreatic ductal adenocarcinoma[3]. However, IPNB is rare, less common than IPMN, and more aggressive since it can progress to cholangiocarcinoma[4]. Both IPNB and IPMN are characterized by intraductal overproduction of mucin and growth of the papillary epithelium, which results in similar imaging findings[4].

Panceatobiliary intraductal neoplasms include: (1) IPMN pancreatic, IPNB; (2) Intraductal oncocytic papillary neoplasm (IOPN); and (3) Intraductal tubulopapillary neoplasm[5].

IBNB, first described by Chen *et al*[6] in 2001, is a slow-growing precancerous lesion that evolves into carcinoma[1,7,8]. The other precursor lesion of invasive cholangiocarcinoma, an aggressive disease with poor outcomes, is biliary intraepithelial neoplasia[7,9]. The mucin produced may cause transient ductal obstruction manifested by recurrent episodes of acute cholangitis, obstructive jaundice and bile duct dilatation[8,10]. IPNB must be considered when a patient presents with such a clinical situation without common bile duct gallstones. Early diagnosis and proper management of this precancerous lesion are important for preventing a dismal disease course and improving long-term oncological outcomes [4].

IPNB has histopathological features and genetic substrates, *i.e.*, gene mutations, similar to those of pancreatic IPMN. IPNB and IPMN usually constitute distinct entities with separate development. However, rare cases of simultaneous coexistence or even metachronic tract occurrences after initial surgical resection, which are rarer, have been reported[11]. Additionally, metachronic development of another new lesion may occur after curative intervention, but the development of a new lesion in the bile duct is less common than that in the pancreatic remnant[12].

The involved mutations included mutations in the *Tp16*, *TP53*, *KRAS*, *GNAS*, *BRAF*, SMAD4, STK11 *CTNNB1*, *PIK3CA*, *RNF43*, *APC*, *CTNNB1*, *ZNRF3*, *CDKNZA*, *BRCA* 1 and *BRCA* 2 genes[1,13,14]. There is an association between *KRAS* and *GNAS* gene mutations in IPNNs and between the *PRKACA* and *PRKACB* genes in IOPNs, which influences oncocytic tumorigenesis and morphology and may lead to therapeutic targets[13].

IPNB represents 5%-15% of relatively rare bile duct neoplasms and is found mainly in East Asia, particularly in elderly individuals older than 67 years[8,10,14,15]. These tumors develop throughout the intrahepatic (type 1) and extrahepatic (type 2) biliary tree[8,14]. Type 2 tumors are more common than type 1 tumors and have a worse prognosis. Magnetic resonance imaging (MRI)-magnetic resonance cholangiopancreatography (MRCP) features may be valuable in distinguishing between the two types of lesions and evaluating the risk of malignancy[15]. These tumors may be adenomas, borderline neoplasias, in situ carcinomas with regular overgrowth, or tubular mucinous adenocarcinomas with irregular overgrowth[1]. High peritumoral and intratumoral budding may be prognostic factors for worse outcomes in patients with extrahepatic distal cholangiocarcinoma[16].

Extensive radical surgical resection is the management method of choice for surgically fit patients with IPNB. Depending on the location, hepatectomy, pancreatoduodenectomy or radical common bile duct resection can be performed[10].

A recent European multicenter study showed a median postoperative survival of 5.7 years and a 5-year overall survival of 63%[17]. In unfit patients, novel endoscopic resection[1], endoscopic radiofrequency ablation or photodynamic therapy can be performed[8]. High-risk imaging findings and strong indications for surgery included a mural nodule more than 12 mm in length and mural nodule enhancement[1]. They are shown in Figure 1[1,4].

Pancreatic IPMNs represent approximately 1% of all pancreatic neoplasms and usually cause recurrent episodes of acute pancreatitis, which can lead to pancreatic dysfunction but may also be asymptomatic. The biological behavior of these tumors ranges from benign to malignant according to the type. The majority of these tumors do not progress to invasive pancreatic carcinoma. There are three types of lesions: Main-duct (MD)-IPMNs, branch-duct (BD)-IPMNs and mixed IPMNs[3]. Both age and metabolic syndrome increase the occurrence of IPMNs[18]. Acute pancreatitis predicts malignancy and constitutes an indication for pancreatectomy[19]. High-risk stigmata and worrisome features may predict malignant transformation in clinical practice and determine management policy, as shown in Table 1[3,20].

Improvements in diagnostic modalities have led to a continual increase in the incidence of IPNB[6]. MRI is the main imaging tool used[4,8,15]. These lesions are intraductal masses accompanied by proximal dilatation and occasionally distal dilatation. The "thread sign" shown in MRCP corresponds to filling defects due to mucin hypersecretion[4].

The first-line modern imaging techniques include contrast-enhanced ultrasound (US), MRI-MRCP and multidetector helical computed tomography, followed by endoscopic US (EUS)[8,21,22]. Additionally, EUS may provide guided needle biopsy[21].

Table 1 High-risk stigmata and worrisome features of malignant pancreatic intraductal papillary mucinous neoplasms			
High-risk stigmata	Worrisome features		
Dilated main pancreatic duct ≥ 10 mm	Cyst size 3 ≥ cm		
Enhanced solid mural nodule $5 \ge mm$	Thickened and enhanced cyst wall		
Obstructive jaundice	Abrupt dilatation of the main pancreatic duct 5-9 mm		
	Distal atrophy of the pancreas		
	Lymph node involvement		

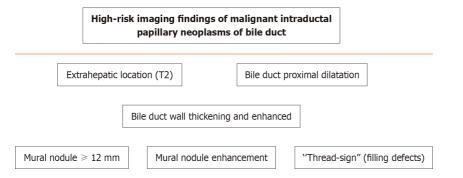


Figure 1 Scheme of Magnetic resonance imaging-cholangiopancreatography indications for malignant intraductal papillary neoplasm of the bile duct (bile duct).

Tumor metabolic activity was detected by positron emission tomography (PET) using ¹⁸FDG-PET[8] or the novel ⁶⁸Galabeled fibroblast activation protein inhibitors-PET[23].

Peroral cholangioscopy^[24] or pancreatoscopy^[25] can directly visualize ducts to aid in diagnosing neoplastic lesions. Additionally, intraoperative pancreatoscopy[26] or even robotic pancreatectomy[27] can assist in determining the extent of pancreatectomy.

The serum elastase-1 concentration^[28] and carbohydrate antigen 19-9 concentration or pancreatic juice cytology^[29] may predict malignancy. Liquid biopsy may assist in determining malignancy by detecting cancer cells or molecular parts in the blood [30].

For the vast majority of MD-IPMNs and mixed IPMNs, surgery is needed. BD-IPMNs without high-risk stigmata have a low possibility of malignancy; thus, conservative management with long-term imaging surveillance is appropriate[31-34].

After curative resection, IPNB malignancies exhibit a better prognosis than original cholangiocarcinomas[8], and IPMNs exhibit a better prognosis than pancreatic ductal adenocarcinomas[35]; however, the recurrence rate is up to 27% for IPNB[15] and up to 43% for IPMN[36]. Thus, regular follow-up is mandatory for early recurrence detection and reoperation in the pancreatic remnant[37].

In conclusion, surgery is the cornerstone of management for patients at high risk for potential malignancies, particularly bile duct IPNB and pancreatic main duct IPMN. Long-term follow-up ensures early detection of recurrence. Conservative management and surveillance are indicated for patients with low-risk pancreatic branch duct IPMNs. However, management must be individualized to avoid overtreatment or overlooking a malignancy.

FOOTNOTES

Author contributions: Pavlidis TE designed research, contributed new analytic tools, analyzed data and review; Galanis IN analyzed data and review; Pavlidis ET performed research, analyzed data, review, and wrote the paper.

Conflict-of-interest statement: All the authors report no relevant conflicts of interest for this article.

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: https://creativecommons.org/Licenses/by-nc/4.0/

Country/Territory of origin: Greece

ORCID number: Efstathios T Pavlidis 0000-0002-7282-8101; Ioannis N Galanis 0009-0001-4283-0788; Theodoros E Pavlidis 0000-0002-8141-1412.



WJG | https://www.wjgnet.com

S-Editor: Li L L-Editor: A P-Editor: Zheng XM

REFERENCES

- Mocchegiani F, Vincenzi P, Conte G, Nicolini D, Rossi R, Cacciaguerra AB, Vivarelli M. Intraductal papillary neoplasm of the bile duct: The 1 new frontier of biliary pathology. World J Gastroenterol 2023; 29: 5361-5373 [PMID: 37900587 DOI: 10.3748/wjg.v29.i38.5361]
- 2 Ohashi K, Murakami Y, Murayama M, Takekoshi T, Ohta H, Ohashi I. Four cases of mucus secreting pancreatic cancer. Prog Dig Endosc 1982; 20: 348-351
- 3 Pavlidis ET, Sapalidis KG, Pavlidis TE. Modern aspects of the management of pancreatic intraductal papillary mucinous neoplasms: a narrative review. Rom J Morphol Embryol 2022; 63: 491-502 [PMID: 36588487 DOI: 10.47162/RJME.63.3.03]
- 4 Kraus M, Klang E, Soffer S, Inbar Y, Konen E, Sobeh T, Apter S. MRI features of intraductal papillary mucinous neoplasm of the bile ducts, "The myth about the cyst": A systematic review. Eur J Radiol Open 2023; 11: 100515 [PMID: 37609049 DOI: 10.1016/j.ejro.2023.100515]
- Nakanuma Y, Sato Y, Kakuda Y, Naito Y, Fukumura Y, Fukushima M, Minato H, Aishima S, Ohike N, Furukawa T. Interobserver agreement 5 of pathologic classification and grading of tumoral intraductal pre-invasive neoplasms of the bile duct. Ann Diagn Pathol 2024; 69: 152247 [PMID: 38128439 DOI: 10.1016/j.anndiagpath.2023.152247]
- Chen TC, Nakanuma Y, Zen Y, Chen MF, Jan YY, Yeh TS, Chiu CT, Kuo TT, Kamiya J, Oda K, Hamaguchi M, Ohno Y, Hsieh LL, Nimura 6 Y. Intraductal papillary neoplasia of the liver associated with hepatolithiasis. Hepatology 2001; 34: 651-658 [PMID: 11584359 DOI: 10.1053/jhep.2001.28199]
- Nagashima D, Esaki M, Nara S, Ban D, Takamoto T, Mizui T, Shimada K, Hiraoka N. Novel insights into the intraepithelial spread of 7 extrahepatic cholangiocarcinoma: clinicopathological study of 382 cases on extrahepatic cholangiocarcinoma. Front Oncol 2023; 13: 1216097 [PMID: 37664071 DOI: 10.3389/fonc.2023.1216097]
- Kim JR, Jang KT, Jang JY. Intraductal papillary neoplasm of the bile duct: review of updated clinicopathological and imaging characteristics. 8 Br J Surg 2023; 110: 1229-1240 [PMID: 37463281 DOI: 10.1093/bjs/znad202]
- Nakanuma Y, Sugino T, Kakuda Y, Nomura Y, Watanabe H, Terada T, Sato Y, Ohnishi Y, Fukumura Y. Pathological survey of precursor 9 lesions in cholangiocarcinoma. J Hepatobiliary Pancreat Sci 2023; 30: 893-903 [PMID: 36707055 DOI: 10.1002/jhbp.1308]
- 10 Wu X, Li B, Zheng C. Clinicopathologic characteristics and long-term prognosis of intraductal papillary neoplasm of the bile duct: a retrospective study. Eur J Med Res 2023; 28: 132 [PMID: 36945047 DOI: 10.1186/s40001-023-01102-w]
- Xiao G, Xia T, Mou YP, Zhou YC. Reoperation for heterochronic intraductal papillary mucinous neoplasm of the pancreas after bile duct 11 neoplasm resection: A case report. World J Gastrointest Surg 2023; 15: 1542-1548 [PMID: 37555129 DOI: 10.4240/wjgs.v15.i7.1542]
- Ito T, Hisa T, Ito Y, Kudo A, Yamada T, Osera S, Tomori A, Fukushima H, Aoyagi D, Shiozawa S. Intraductal papillary neoplasm of the bile 12 duct with metachronous development in the downstream bile duct after radical resection. Clin J Gastroenterol 2024; 17: 155-163 [PMID: 37837506 DOI: 10.1007/s12328-023-01867-x]
- Itoh T, Omori Y, Seino M, Hirose K, Date F, Ono Y, Mizukami Y, Aoki S, Ishida M, Mizuma M, Morikawa T, Higuchi R, Honda G, 13 Okamura Y, Kinoshita K, Unno M, Furukawa T. Gene Rearrangement and Expression of PRKACA and PRKACB Govern Morphobiology of Pancreatobiliary Oncocytic Neoplasms. Mod Pathol 2024; 37: 100358 [PMID: 37871652 DOI: 10.1016/j.modpat.2023.100358]
- 14 Wu RS, Liao WJ, Ma JS, Wang JK, Wu LQ, Hou P. Epidemiology and outcome of individuals with intraductal papillary neoplasms of the bile duct. World J Gastrointest Oncol 2023; 15: 843-858 [PMID: 37275447 DOI: 10.4251/wjgo.v15.i5.843]
- Jeon SK, Lee JM, Yoo J, Park S, Joo I, Yoon JH, Lee KB. Intraductal papillary neoplasm of the bile duct: diagnostic value of MRI features in 15 differentiating pathologic subclassifications-type 1 vs type 2. Eur Radiol 2023 [PMID: 38114846 DOI: 10.1007/s00330-023-10491-9]
- Jun SY, Hong SM, An S. Prognostic Significance of Intratumoral and Peritumoral Budding in Distal Extrahepatic Bile Duct Carcinoma. 16 Pathobiology 2023 [PMID: 38113866 DOI: 10.1159/000535847]
- Lluvs N, Serradilla-Martvn M, Achalandabaso M, Jehaes F, Dasari BVM, Mambrilla-Herrero S, Sparrelid E, Balakrishnan A, Hoogwater FJH, 17 Amaral MJ, Andersson B, Berrevoet F, Doussot A, Lopez-Lopez V, Alsammani M, Detry O, Domingo-Del Pozo C, Machairas N, Pekli D, Alcazar-Lopez CF, Asbun H, Bjørnsson B, Christophides T, Dvez-Caballero A, Francart D, Noel CB, Sousa-Silva D, Toledo-Martvnez E, Tzimas GN, Yaqub S, Cauchy F, Prieto-Calvo M, D'Souza MA, Spiers HVM, van den Heuvel MC, Charco R, Lesurtel M, Ramia JM. Intraductal papillary neoplasms of the bile duct: a European retrospective multicenter observational study (EUR-IPNB study). Int J Surg 2023; 109: 760-771 [PMID: 36917142 DOI: 10.1097/JS9.000000000000280]
- Tanaka S, Tsujimae M, Masuda A, Inoue J, Inomata N, Uemura H, Kohashi S, Nagao K, Masuda S, Abe S, Gonda M, Yamakawa K, Ashina 18 S, Nakano R, Tanaka T, Yamada Y, Sakai A, Kobayashi T, Shiomi H, Fujita K, Anami T, Fujita T, Watanabe A, Kodama Y. Metabolic Syndrome Accelerates the Age-Related Increase of Intraductal Papillary Mucinous Neoplasm of the Pancreas. Pancreas 2024; 53: e9-e15 [PMID: 37890158 DOI: 10.1097/MPA.000000000002267]
- 19 Xu JH, Ni CY, Zhuang YY, Li L, Lin Y, Xia ZS, Wu WR, Chen QK, Zhong W. Acute pancreatitis in intraductal papillary mucinous neoplasm: a single-center retrospective cohort study with systematic review and meta-analysis. BMC Gastroenterol 2023; 23: 424 [PMID: 38041073 DOI: 10.1186/s12876-023-02972-4]
- Kazami Y, Arita J, Nishioka Y, Kawaguchi Y, Ichida A, Ishizawa T, Akamatsu N, Kaneko J, Nakai Y, Koike K, Hasegawa K. Preoperative 20 Predictive Features of Invasive Carcinoma Among Intraductal Papillary Mucinous Neoplasm of the Pancreas. Pancreas 2022; 51: 642-648 [PMID: 35835103 DOI: 10.1097/MPA.000000000002078]
- Conti Bellocchi MC, Manfrin E, Brillo A, Bernardoni L, Lisotti A, Fusaroli P, Parisi A, Sina S, Facciorusso A, Gabbrielli A, Crinç SF. Rare 21 Pancreatic/Peripancreatic Cystic Lesions Can Be Accurately Characterized by EUS with Through-the-Needle Biopsy-A Unique Pictorial Essay with Clinical and Histopathological Correlations. Diagnostics (Basel) 2023; 13 [PMID: 38132247 DOI: 10.3390/diagnostics13243663]
- Minelli C, Balducci F, Cavalleri C, Milanetto AC, Ferrara F, Crimµ F, Quaia E, Vernuccio F. Intraductal papillary mucinous neoplasms of the 22 pancreas: Uncommon imaging presentation, evolution and comparison of guidelines. Eur J Radiol Open 2023; 11: 100531 [PMID: 37920680 DOI: 10.1016/j.ejro.2023.100531]



WJG https://www.wjgnet.com

- Lang M, Spektor AM, Hielscher T, Hoppner J, Glatting FM, Bicu F, Hackert T, Heger U, Pausch T, Gutjahr E, Rathke H, Giesel FL, 23 Kratochwil C, Tjaden C, Haberkorn U, Røhrich M. Static and Dynamic (68)Ga-FAPI PET/CT for the Detection of Malignant Transformation of Intraductal Papillary Mucinous Neoplasia of the Pancreas. J Nucl Med 2023; 64: 244-251 [PMID: 35906094 DOI: 10.2967/jnumed.122.264361]
- Koiwai A, Hirota M, Murakami K, Katayama T, Kin R, Endo K, Kogure T, Takasu A, Sakurai H, Kondo N, Takami K, Yamamoto K, 24 Katayose Y, Satoh K. Direct peroral cholangioscopy with red dichromatic imaging 3 detected the perihilar margin of superficial papillary extension in a patient with intraductal papillary neoplasm of the bile duct. DEN Open 2023; 3: e228 [PMID: 36998349 DOI: 10.1002/deo2.228]
- Sarita MAT, Sakai A, Tsujimae M, Kobayashi T, Masuda A, Kanzawa M, Toyama H, Kodama Y. Use of Peroral Pancreatoscopy in the 25 Diagnosis of Elusive Intraductal Papillary Mucinous Neoplasm With High-Grade Dysplasia. ACG Case Rep J 2023; 10: e01165 [PMID: 37811365 DOI: 10.14309/crj.000000000001165]
- 26 Ciprani D, Frampton A, Amar H, Oppong K, Pandanaboyana S, Aroori S. The role of intraoperative pancreatoscopy in the surgical management of intraductal papillary mucinous neoplasms of the pancreas: a systematic scoping review. Surg Endosc 2023; 37: 9043-9051 [PMID: 37907657 DOI: 10.1007/s00464-023-10518-8]
- Fong ZV, Zwart MJW, Gorris M, Voermans RP, van Wanrooij RLJ, Wielenga T, Del Chiaro M, Arnelo U, Daams F, Busch OR, Besselink 27 MG. Intraoperative Pancreatoscopy During Robotic Pancreatoduodenectomy and Robotic Distal Pancreatectomy for Intraductal Papillary Mucinous Neoplasm with Involvement of the Main Pancreatic Duct. Ann Surg Open 2023; 4: e283 [PMID: 37601466 DOI: 10.1097/AS9.00000000000283]
- Mishima T, Takano S, Takayashiki T, Kuboki S, Suzuki D, Sakai N, Hosokawa I, Konishi T, Nishino H, Nakada S, Kouchi Y, Kishimoto T, 28 Ohtsuka M. Serum elastase-1 predicts malignancy in intraductal papillary mucinous neoplasm of the pancreas. Pancreatology 2024; 24: 93-99 [PMID: 38102054 DOI: 10.1016/j.pan.2023.11.015]
- 29 Nagayama R, Ueki T, Shimizu Y, Hijioka S, Nakamura M, Kitano M, Hara K, Masamune A, Kin T, Hanada K, Koshita S, Yamada R, Takenaka M, Itoi T, Yanagisawa A, Otuka T, Hirono S, Kanno A, Ideno N, Kuwahara T, Shimizu A, Kamata K, Asai Y, Takeyama Y. Is preoperative pancreatic juice cytology useful for determining therapeutic strategies for patients with intraductal papillary mucinous neoplasm of the pancreas? J Hepatobiliary Pancreat Sci 2023 [PMID: 38084510 DOI: 10.1002/jhbp.1394]
- Kuvendjiska J, Móller F, Bronsert P, Timme-Bronsert S, Fichtner-Feigl S, Kulemann B. Circulating Epithelial Cells in Patients with 30 Intraductal Papillary Mucinous Neoplasm of the Pancreas. Life (Basel) 2023; 13 [PMID: 37511945 DOI: 10.3390/life13071570]
- Ferronato M, Lizzio CE, Berardinelli D, Marini D, Elia E, Andreetto L, Trentini A, Potenza MC, Serra C, Mazzotta E, Ricci C, Casadei R, 31 Migliori M. Abdominal ultrasound in the characterization of branch-duct intraductal papillary mucinous neoplasms: A new tool for surveillance of low-risk patients? Dig Liver Dis 2023 [PMID: 38042636 DOI: 10.1016/j.dld.2023.11.010]
- Hesse F, Ritter J, Hapfelmeier A, Braren R, Phillip V. Comparison of Magnetic Resonance Imaging and Endoscopic Ultrasound in the Sizing 32 of Intraductal Papillary Mucinous Neoplasia of the Pancreas. Pancreas 2023; 52: e315-e320 [PMID: 37906550 DOI: 10.1097/MPA.00000000002264
- Lattimore CM, Kane WJ, Subbarao S, Venitti C, Cramer CL, Turkheimer LM, Bauer TW, Turrentine FE, Zaydfudim VM. Long-term 33 surveillance of branch-duct intraductal papillary mucinous neoplasms without worrisome or high-risk features. J Surg Oncol 2023; 128: 1087-1094 [PMID: 37530526 DOI: 10.1002/jso.27414]
- Deng H, Dou W, Pan Y. The Surveillance for Presumed BD-IPMN of the Pancreas. Gastroenterology 2023 [PMID: 37549750 DOI: 34 10.1053/j.gastro.2023.07.023]
- Holmberg M, Linder S, Kordes M, Liljefors M, Ghorbani P, Løhr JM, Sparrelid E. Impact of spatio-temporal recurrence pattern on overall 35 survival for invasive intraductal papillary mucinous neoplasia - A comparison with pancreatic ductal adenocarcinoma. Pancreatology 2022; 22: 598-607 [PMID: 35501218 DOI: 10.1016/j.pan.2022.04.007]
- Habib JR, Kinny-Køster B, Amini N, Shoucair S, Cameron JL, Thompson ED, Fishman EK, Hruban RH, Javed AA, He J, Wolfgang CL. 36 Predictors, Patterns, and Timing of Recurrence Provide Insight into the Disease Biology of Invasive Carcinomas Arising in Association with Intraductal Papillary Mucinous Neoplasms. J Gastrointest Surg 2022; 26: 2311-2320 [PMID: 35915375 DOI: 10.1007/s11605-022-05428-4]
- 37 Fuji T, Umeda Y, Takagi K, Yoshida R, Yoshida K, Yasui K, Matsumoto K, Kato H, Yagi T, Fujiwara T. Optimal surveillance of intraductal papillary mucinous neoplasms of the pancreas focusing on remnant pancreas recurrence after surgical resection. BMC Cancer 2022; 22: 588 [PMID: 35643422 DOI: 10.1186/s12885-022-09650-w]



WJG https://www.wjgnet.com



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

