

Supplemental table 1. Clinical timeline of the present case

Date	Events	Key findings and clinical decisions
2025-04	Initial symptoms	Right upper abdominal pain after fatty meals; no fever, jaundice, vomiting, or other symptoms.
2025-05-09	Laboratory evaluation	Routine blood tests, liver and pancreatic function, and IgG4 were normal; CA125 was mildly elevated to 68.7 U/mL.
2025-05-13	Cross-sectional imaging	CT/MRI/PET-CT demonstrated a giant cystic-solid gallbladder lesion with papillary intraluminal components and multiple pancreatic cystic-solid lesions.
2025-05-20	Endoscopic evaluation	EUS showed multiple pancreatic cystic-solid lesions; EUS-FNA yielded only scant atypically proliferating glandular epithelial cells.
2025-06-06	Surgery	Radical pancreatic resection and cholecystectomy were performed because malignancy could not be excluded.
2025-06-25	Pathology	Gallbladder ICPN with high-grade dysplasia; pancreatic ITPN with microinvasive carcinoma.
2025-09-18	Follow-up	Satisfactory postoperative recovery with pancreatic enzyme supplementation; referral for oncologic surveillance.

IgG4, serum immunoglobulin G4; CA125, carbohydrate antigen 125; CT, computed tomography; MRI, magnetic resonance imaging; PET-CT, positron emission tomography/computed tomography; EUS, endoscopic ultrasonography; FNA, fine-needle aspiration; ICPN, intracholecystic papillary-tubular neoplasm; ITPN, intraductal tubulopapillary neoplasm.

Supplemental table 2. Literature search strategy and study selection process for reported pancreatic-gallbladder dual neoplasms

Step	Purpose	Search Strategy	Inclusion Focus	Exclusion Focus	Outcome
1	Identify reports involving both pancreatic and gallbladder neoplasms	("Gallbladder Neoplasms"[Mesh] OR gallbladder[tiab] OR "Gallbladder"[Mesh] OR ICPN[tiab]) AND ("Pancreatic Neoplasms"[Mesh] OR pancreas[tiab] OR pancreatic[tiab] OR "intraductal papillary mucinous neoplasm"[tiab] OR IPMN[tiab] OR ITPN[tiab] OR IPNB[tiab]) AND ("Synchronous"[tiab] OR "Metachronous"[tiab] OR "Multiple Primary"[tiab] OR "Double Primary"[tiab] OR "multifocal"[tiab] OR "pancreatobiliary"[tiab] OR "pancreaticobiliary"[tiab]) AND ("Case Reports"[pt] OR "case"[tiab])	Case reports/series describing neoplasms in both pancreas and gallbladder	Reviews, animal studies, unrelated tumors	156 results
2	Screen for true pancreatic and gallbladder dual primary lesions	Manual review of titles and abstracts	Primary neoplasms involving both pancreas and gallbladder	Metastatic or dissemination-related lesions; neuroendocrine tumors	13 results
3	Extract clinicopathologic data and construct final supplementary table	Full-text/abstract review	Age, sex, pathology, synchronicity, molecular or genetic findings, possible mechanism or key finding	-	Final comparative table generated