

Supplementary Information for the Paper

Case Enrollment Exclusion Criteria:

1. IgG4-SC with choledocholithiasis
2. A case of IgG4-SC progressing to cholangiocarcinoma within 3 months

Table 1 Comparison of Imaging Findings Including PTC and MRCP in 20 Patients with IgG4-SC and Description of Detection Rate of Typical Features

	Name	ID	Age	Gender	Onset time	PTC		MRCP, enhanced MRI or CT	
						Displayable Feature 1	Displayable Feature 2	Displayable Feature 3	Displayable Feature 4
						Long segment stenosis of the bile duct	The narrow lumen has a uniform thickness	Uniform thickening of the bile duct wall	Bile duct interruption
1	Liu wk	A0820603	90	male	2021.09	Yes	Yes	Yes	Yes
2	Ouyang	B0977783	70	male	2020.01	Yes	Yes	Yes	Yes
3	Yu lm	D1104719	62	male	2021.03	Yes	Yes	Yes	Yes
4	Li zc	D2460568	67	male	2024.06	Yes	Yes	Yes	Yes
5	Ji xq	B0854904	75	male	2019.12	Yes	Yes	Yes	Yes
6	Zou lq	504046	65	male	2017.03	Yes	Yes	Yes	Yes
7	Cai sw	486284	65	male	2025.05	Yes	Yes	Yes	Yes
8	Ma gh	532051	54	female	2018.09	No	No	Yes	Yes
9	Li wq	D3665429	65	male	2025.01	Yes	Yes	Yes	Yes
10	Xie wh	B0828590	62	male	2019.12	Yes	Yes	Yes	Yes
11	Wang g	D2857272	55	female	2025.03	Yes	Yes	Yes	Yes
12	Liu xb	420928	52	male	2024.11	Yes	Yes	Yes	Yes
13	Du jx	D2611096	49	male	2024.08	Yes	Yes	Yes	Yes
14	Cai bl	A0519753	81	male	2022.08	Yes	Yes	Yes	Yes
15	Yan jc	501447	48	male	2017.02	Yes	Yes	Yes	Yes
16	Xie qz	450752	61	female	2014.3	Yes	Yes	Yes	Yes
17	Zao hy	515970	54	female	2017.09	Yes	Yes	Yes	Yes
18	Gao qs	435503	53	male	2017.12	Yes	Yes	Yes	Yes
19	Buren n	D3558240	59	male	2025.12	Yes	Yes	Yes	Yes
20	Jiang cx	D1438958	66	male	2022.3	Yes	Yes	Yes	Yes

Table 2 Description of PTC Imaging Features in 10 Patients with Cholangiocarcinoma

	Name	ID	Age	Gender	Onset time	Length of the stenotic segment	Wall elasticity during PTC angiography	Whether the guide wire is centered during PTC angiography	Is the bile duct stenosis uniform
1	Wu yk	D2126581	80	male	2023.7	short	not exist	No	No
2	Buhe zl	D2334308	75	male	2024.1	short	not exist	No	No
3	Guo qb	D1303483	44	male	2021.7	short	not exist	No	No
4	Li p	D2409343	67	male	2024.3	short	not exist	No	No
5	Liu yz	1200512	74	female	2019.9	short	not exist	No	No
6	Zao xc	D2866907	75	male	2024.12	long	exist	Yes	Yes
7	Xv w	4805666	53	male	2017.06	short	not exist	No	No
8	Wang gr	6134542	74	female	2016.09	short	not exist	No	No
9	Liuyj	3514202	79	male	2015.11	short	not exist	No	No
10	Yang sw	284012	76	female	2015.05	long	exist	Yes	Yes

Data Description:

All imaging examinations were independently evaluated by one senior radiologist and one hepatobiliary surgeon, and a consensus was reached through joint discussion in case of conflicting opinions.