

# TNM classification for hepatobiliary cancers

Comparison of  
TNM 6 ( 2002)  
TNM 7 (2010)  
TNM 8 (2018)

# TNM staging for Hepatocellular Carcinoma

	TNM6 2002	TNM7 2010	TNM8 2018
pT1	Single, no vascular inv.	Single, no vascular inv.	pT1a single, <2cm +/- vascular invasion
			pT1b single, >2cm, no vascular invasion
pT2	Single with vascular inv. Or multiple <5cm	single with vascular invasion or multiple, none >5cm	single >2cm with vasc. inv. or multiple, none >5cm
pT3	Multiple >5cm or involves major branch of portal or hepatic vein	pT3a multiple tumours any more than 5cm	multiple tumours any more than 5cm
		pT3b tumour involving major branch of portal or hepatic vein	
pT4	Direct invasion of adjacent organs other than GB or perforates visceral peritoneum		Involves major branch of portal or hepatic vein, or direct invasion of adjacent organs (except GB) or perforates visceral peritoneum.
pN1	Regional nodes +ve		Sample $\geq 3$ nodes

# TNM staging for Intrahepatic Cholangiocarcinoma

	TNM6 2002 = hepatocellular carcinoma	TNM7 2010 ICC now has separate TNM	TNM8 2018
pTis		Carcinoma in situ	Inc. BilIN3
pT1	Single, no vascular inv.	Single, no vascular inv.	Single, no vasc. inv. pT1a <5cm pT1b >5cm
pT2	Single with vascular inv. Or multiple <5cm	pT2a single with vasc. inv.	Single with vasc. Inv. or multiple +/- vascular invasion
		pT2b multiple +/- vascular invasion	
pT3	Multiple >5cm or involves major branch of portal or hepatic vein	Perforates visceral peritoneum or invades local extra-hepatic structures	Perforates visceral peritoneum
pT4	Direct invasion of adjacent organs other than GB or perforates visceral peritoneum	Tumour with periductal growth pattern	Invades local extra- hepatic structures
pN1	Regional nodes +ve Sample $\geq 3$ nodes		Sample $\geq 6$ nodes

# TNM staging for Perihilar Cholangiocarcinoma

	TNM6 2002 = extrahepatic ducts	TNM7 2010	TNM8 2018
pTis	Carcinoma in situ		Inc. BillN3
pT1	Ductal wall	Confined to wall	
pT2	Beyond ductal wall	pT2a into surrounding adipose tissue	
		pT2b into adjacent hepatic parenchyma	
pT3	Liver, GB, pancreas or unilateral vessels	Unilateral <b>branch of PV</b> or HA	
pT4	Other adjacent organs or main vessels	Main PV or bilateral branches, or common HA or second order biliary radicals with contralateral PV or HA	
pN1	Regional nodes <b>+ve</b>	Regional nodes <b>+ve</b>	<b>pN1</b> 1-3 nodes +ve <b>pN2</b> >3 nodes +ve Sample <u>15</u> nodes

# TNM staging for Gall Bladder Carcinoma

	TNM6 2002 = hepatocellular carcinoma	TNM7 2010	TNM8 2018
pTis	Carcinoma in situ		Inc. BillN3
pT1	pT1a invades lamina propria pT1b invades muscle		
pT2	Invades perimuscular connective tissue – no extension beyond visceral peritoneum or into liver		Invades perimuscular connective tissue – no extension beyond visceral peritoneum or into liver
			pT2a peritoneal side pT2b hepatic side
pT3	Perforates visceral peritoneum and/or invades liver and/or one other adjacent organ		
pT4	Invades main portal vein or hepatic artery or $\geq 2$ extrahepatic organs		
pN1	Regional nodes +ve Sample $\geq 3$ nodes		Sample $\geq 6$ nodes