Intrahepatic Cholangiocarcinoma, Perihilar Cholangiocarcinoma and Hepatocellular Carcinoma
Histopathology Reporting Guide

Family/Last name
Given name(s)
Patient identifiers

Date of birth
Date of request
Accession/Laboratory number

Elements in black text are REQUIRED. Elements in grey text are RECOMMENDED.

SPECIMEN(S) SUBMITTED (select all that apply)

Not specified
Indeterminate
Liver
Total hepatectomy
Segmental resection (List segments or type of segmentectomy)

Wedge resection (Describe site/segment)

Extrahepatic bile duct
Gallbladder
Diaphragm
Lymph nodes (Specify site/s)

Other (Specify)

SPECIMEN DIMENSIONS
(Indicate greatest measurement for each parameter in an irregularly shaped specimen)

mm x mm x mm

Length of extrahepatic bile duct
(Applicable to perihilar cholangiocarcinoma only)

mm

SPECIMEN WEIGHT g

SATELLITOSIS
(Applicable to hepatocellular carcinoma only)

Cannot be assessed
Not identified
Present

MACROSCOPIC TUMOUR RUPTURE
(Applicable to hepatocellular carcinoma and perihilar cholangiocarcinoma only)

Fragmented specimen
Ruptured
Intact

TUMOUR SITE AND NUMBER
No macroscopic residual tumour

Specify site
No./site (if possible)

MAXIMUM TUMOUR DIMENSION

Cannot be assessed

Tumour identification
Max dimension

For a large number of tumours include a range

mm to mm

BLOCK IDENTIFICATION KEY
(List overleaf or separately with an indication of the nature and origin of all tissue blocks)

HISTOLOGICAL TUMOUR TYPE

Hepatocellular carcinoma
Hepatocellular carcinoma, fibrolamellar variant
Cholangiocarcinoma
Combined hepatocellular – cholangiocarcinoma
Intraductal papillary neoplasm with an associated invasive carcinoma
Mucinous cystic neoplasm with an associated invasive carcinoma
Undifferentiated carcinoma
Carcinoma, type cannot be determined
### TUMOUR GROWTH PATTERN

**Hepatocellular carcinoma:**
- Cannot be determined
- Small nodular type with indistinct margin
- Margin distinct
  - Simple nodular type
  - Simple nodular type with extranodular growth
  - Confluent multinodular type
- Margin irregular (infiltrative type)

**Intrahepatic, and perihilar cholangiocarcinoma:**
- Mass-forming
- Intraductal-growth
- Periductal infiltrating
- Mixed mass-forming and periductal infiltrating

### HISTOLOGICAL GRADE

- Not applicable
- Cannot be assessed
- Well differentiated/G1
- Moderately differentiated/G2
- Poorly differentiated/G3

### EXTENT OF INVASION

- No evidence of primary tumour
- Cannot be assessed

**Macroscopic invasion**
- Tumour confined to liver
- Tumour confined to the extrahepatic bile ducts histologically (carcinoma in situ/high-grade dysplasia) *(Applicable to perihilar cholangiocarcinoma only)*
- Tumour involves visceral peritoneum
- Tumour directly invades gallbladder
- Tumour directly invades other adjacent organs

**Microscopic invasion**
- Tumour confined to liver
- Tumour confined to the bile duct mucosa histologically (carcinoma in situ/high-grade dysplasia) *(Applicable to cholangiocarcinoma only)*
- Tumour involves visceral peritoneum
- Tumour directly invades gallbladder
- Tumour directly invades other adjacent organs

### VASCULAR INVASION

- Not identified
- Indeterminate
- Present macroscopically (large portal or hepatic veins)
- Present microscopically (small portal or hepatic veins)

### PERINEURAL INVASION

*(Applicable to intrahepatic and perihilar cholangiocarcinoma)*
- Not identified
- Indeterminate
- Present

### RESPONSE TO NEOADJUVANT THERAPY

- Complete necrosis (no viable tumour)
- Incomplete necrosis (viable tumour present)
- No necrosis
- No prior treatment
- Response cannot be assessed (Explain reasons)

### MARGIN STATUS

- Cannot be assessed
- Not involved by invasive carcinoma
  - Distance of tumour to closest margin
  - Clearance is ≥10 mm
- Involved by invasive carcinoma
  - Specify margin/s, if possible
- Involved by high-grade dysplasia/carcinoma in situ *(Applicable to cholangiocarcinoma only)*
  - Specify margin/s, if possible

### LYMPH NODE STATUS

- No nodes submitted or found
- Not involved
- Involved
  - Number of lymph nodes examined
  - Number of positive lymph nodes
  - Number cannot be determined

### COEXISTENT PATHOLOGY

**Other histopathological features**
- Steatosis
  - None identified
- Steatohepatitis
- Iron overload
- Biliary disease (Specify, if known)
- Chronic hepatitis (Specify type, if known)
- Other (Specify)

**Fibrosis**
- Not identified
- Indeterminate
- Present

**ISHAK stage**
- 

**KLEINER stage**
- 

**METAVIR stage**
- 

**BATTS-LUDWIG stage**
- 

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PATHOLOGICAL STAGING (TNM 8th edition)##

TNM Descriptors (only if applicable) (select all that apply)
- [ ] m - multiple primary tumors
- [ ] r - recurrent
- [ ] y - post therapy

Primary tumour (pT)

HEPATOCELLULAR CARCINOMA
(Liver excluding intrahepatic and perihilar bile ducts)
- [ ] TX Primary tumour cannot be assessed
- [ ] T0 No evidence of primary tumour
- [ ] T1a Solitary tumour 2cm or less in greatest dimension with or without vascular invasion
- [ ] T1b Solitary tumour more than 2cm in greatest dimension without vascular invasion
- [ ] T2 Solitary tumour with vascular invasion more than 2 cm dimension or multiple tumours none more than 5 cm in greatest dimension
- [ ] T3 Multiple tumours any more then 5cm in greatest dimension
- [ ] T4 Tumour(s) involving a major branch of the portal or hepatic vein with direct invasion of adjacent organs (including the diaphragm), other than the gallbladder or with perforation of visceral peritoneum

INTRAHEPATIC CHOLANGIOCARCINOMA**
(Intrahepatic bile ducts)
- [ ] TX Primary tumour cannot be assessed
- [ ] T0 No evidence of primary tumour
- [ ] Tis Carcinoma in situ
- [ ] T1 Tumour confined to the bile duct, with extension up to the muscle layer or fibrous tissue
- [ ] T2a Tumour invades beyond the wall of the bile duct to surrounding adipose tissue
- [ ] T2b Tumour invades adjacent hepatic parenchyma
- [ ] T3 Tumour invades unilateral branches of the portal vein or hepatic artery
- [ ] T4 Tumour invades main portal vein or its branches bilaterally; or the common hepatic artery; or unilateral second-order biliary radicals with contralateral portal vein or hepatic artery involvement

Regional lymph nodes(pN)
- [ ] No nodes submitted or found

HEPATOCELLULAR CARCINOMA & INTRAHEPATIC CHOLANGIOCARCINOMA
(Liver including intrahepatic bile ducts and excluding perihilar bile ducts)
- [ ] NX Regional lymph nodes cannot be assessed
- [ ] N0 No regional lymph node metastasis
- [ ] N1 Regional lymph node metastasis

PERIHILAR CHOLANGIOCARCINOMA
(Perihilar bile ducts)
- [ ] NX Regional lymph nodes cannot be assessed
- [ ] N0 No regional lymph node metastasis
- [ ] N1 Metastases to 1-3 regional lymph nodes
- [ ] N2 Metastases to 4 or more regional lymph nodes

Distant metastases (pM)
- [ ] Not applicable
- [ ] M1 Distant metastasis

** Combined Hepatocellular-Cholangiocarcinomas are staged as per Intrahepatic Cholangiocarcinoma