


Intrahepatic Cholangiocarcinoma, Perihilar Cholangiocarcinoma and Hepatocellular Carcinoma Structured Pathology Reporting Proforma



Includes the  International Collaboration on Cancer reporting dataset denoted by *

Family name

Given name(s)

Date of birth

Sex

- Male
 Female
 Intersex/indeterminate

Ethnicity

- Unknown
 Aboriginal/Torres Strait Islander (AU)
 Maori (NZ)
 Other ethnicity:

Patient identifiers

e.g. MRN, IHI or NHI (please indicate which)

Date of request

Accession number

Requesting doctor - name and contact details

Clinical information

S1.02 NEW PRIMARY LESION OR RECURRENCE

- New primary
 Recurrence - regional, *describe*

- Recurrence - distant, *describe*

Radiological / imaging information

Operative procedure

S1.04 PRINCIPAL CLINICIAN

G1.02 COMMENTS

Macroscopic findings

S2.01 SPECIMEN LABELLED AS

G2.01 OPERATIVE PROCEDURE

S2.02 * 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)

G2.02 LIVER CAPSULE

- Abnormal Normal

Breached by tumour

Nodular

Evidence of previous biopsy or surgery

G2.03 * SPECIMEN DIMENSIONS

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

length mm x width mm x thickness mm

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

G2.04 * SPECIMEN WEIGHT g

G2.05 * SATELLITOSIS (Applicable to hepatocellular carcinoma only)

- Cannot be assessed Not identified Present

G2.06 * MACROSCOPIC TUMOUR RUPTURE (Applicable to hepatocellular carcinoma and perihilar cholangiocarcinoma only)

- Fragmented specimen Ruptured Intact

S2.03 * TUMOUR SITE AND NUMBER

No macroscopic residual tumour No. of tumours/site

Specify site (if possible) [table with 5 rows of site and number boxes]

S2.04 * MAXIMUM TUMOUR DIMENSION

- Cannot be assessed

Tumour ID Max dimension [table with 5 rows of ID and dimension boxes]

For a large number of tumours include a range mm to mm

G2.07 MINIMUM DISTANCE OF TUMOUR TO LIVER CAPSULE (Applicable to intrahepatic tumour specimens) mm

G2.08 DISTANCE OF TUMOUR TO CLOSEST RESECTION MARGIN mm Closest margin

G2.09 MACROSCOPIC INVOLVEMENT OF VESSELS (Applicable to intrahepatic tumour specimens)

Not identified Present, specify vessel(s) involved [text box]

G2.10 EXTENT OF INVASION INTO BILIARY TREE (Applicable to hilar cholangiocarcinoma specimens) [text box]

G2.11 DEPTH OF INVASION BEYOND BILIARY TREE (Applicable to hilar cholangiocarcinoma specimens) [text box]

G2.12 BACKGROUND PARENCHYMA Normal Abnormal, describe eg cirrhotic/fibrotic/fatty change/ nutmeg [text box]

S2.05 * BLOCK IDENTIFICATION KEY

[Large empty box for block identification key]

G2.13 OTHER MACROSCOPIC COMMENTS [text box]

Microscopic findings

S3.01 * 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

G3.01 * 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 Cannot be determined
- Intraductal-growth
- Periductal infiltrating
- Mixed mass-forming and periductal infiltrating

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

S3.03 * 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

S3.04 * VASCULAR INVASION

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

G3.02 * PERINEURAL INVASION

(*Applicable to intrahepatic and perihilar cholangiocarcinoma*)

- Not identified Indeterminate Present

G3.03 * LOCO-REGIONAL THERAPY

(*for hepatocellular carcinoma*)

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

G3.03 * RESPONSE TO NEOADJUVANT THERAPY

(*for cholangiocarcinoma*)

- Complete necrosis (no viable tumour)
- Incomplete necrosis (viable tumour present)



Percentage necrosis

- No necrosis
- No prior treatment
- Response cannot be assessed (Explain reasons)

S3.05 * MARGIN STATUS

- Cannot be assessed
- Not involved by invasive carcinoma

Distance of tumour to closest margin

OR

- Clearance is ≥ 10 mm

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

S3.06 * 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

S3.07 * 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 (If present consider recording G3.05)

- Not identified Indeterminate Present

S3.07 *COEXISTENT PATHOLOGY (Cont.)

Dysplastic/pre-malignant lesions

None identified

BILIARY INTRA-EPITHELIAL NEOPLASIA (BiIN)

Absent Present



- BiIN-1
- BiIN-2
- BiIN-3

LOW-GRADE HEPATOCELLULAR DYSPLASTIC NODULE

Absent Present

HIGH-GRADE HEPATOCELLULAR DYSPLASTIC NODULE

Absent Present

Other

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G3.03 *Fibrosis - staging system

(Report only if needed)

*ISHAK stage

OR

*KLEINER stage

OR

*METAVIR stage

OR

*BATTS-LUDWIG stage

OR

BRUNT stage

Other stage (specify system and result)

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G3.06 OTHER MICROSCOPIC COMMENTS

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G4.01 *ANCILLARY STUDIES

Performed, describe Not performed

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Synthesis and overview

S5.01 *PATHOLOGICAL STAGING (TNM 8th Ed)##

(see p5)

| | |
|----------------|----------------------|
| T | <input type="text"/> |
| N | <input type="text"/> |
| M | <input type="text"/> |
| Stage Grouping | <input type="text"/> |

S5.02 Year of publication and edition of cancer staging system

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G5.01 Diagnostic summary

Include: Specimen submitted (S2.02); Tumour type (S3.01); Tumour stage (S5.01 & S5.02); Whether or not the specimen margins are involved (S3.05).

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S5.03 Overarching comment

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G5.02 Structured Reporting for Intrahepatic Cholangiocarcinoma, Perihilar Cholangiocarcinoma and Hepatocellular Carcinoma (1st Edition 2019).

S5.01 * 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 than 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 (intraductal tumour)
 T1a Solitary tumour 5cm or less in greatest dimension without vascular invasion
 T1b Solitary tumour more than 5cm in greatest dimension without vascular invasion
 T2 Solitary tumour with intrahepatic vascular invasion or multiple tumours, with or without vascular invasion
 T3 Tumour perforating the visceral peritoneum
 T4 Tumour involving local extrahepatic structures by direct hepatic invasion

PERIHILAR CHOLANGIOCARCINOMA

(Perihilar 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

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