

## COSD mapping for Appendix I: Reporting proforma for liver resection: hepatocellular carcinoma in list format

RCPATH Data set item element name	Values	Implementation comments	COSD Pathology v4.0.2 (2020)	COSD Pathology v5.1.1 (2024)
Surname			CR0050 - Person Family Name	CR0050 - Person Family Name
Forenames			CR0060 - Person Given Name	CR0060 - Person Given Name
Date of birth			CR0100 - Person Birth Date	CR0100 - Person Birth Date
Sex			CR3170 - Person Stated Gender Code	CR3170 - Person Stated Gender Code
Hospital			pCR0800 - Organisation Identifier (of Reporting Pathologist)	pCR0800 - Organisation Identifier (of Reporting Pathologist)
Hospital no			CR0020 - Local Patient Identifier	CR0020 - Local Patient Identifier
NHS/CHI no		CHI number not recorded in COSD	CR0010 - NHS Number	CR0010 - NHS Number
Date of receipt			pCR0770 - Sample Receipt Date	pCR0770 - Sample Receipt Date
Date of reporting			pCR0780 - Investigation Result Date	pCR0780 - Investigation Result Date
Report no			pCR0950 - Service Report Identifier	pCR0950 - Service Report Identifier
Pathologist			pCR7100 - Professional Registration Issuer Code - Consultant (Pathology Test Requested By)	pCR7100 - Professional Registration Issuer Code - Consultant (Pathology Test Requested By)

			pCR7120 - Professional Registration Entry Identifier - Consultant (Pathology Test Requested By)	pCR7120 - Professional Registration Entry Identifier - Consultant (Pathology Test Requested By)
Surgeon			Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text	Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text
Gross description				
Type of specimen	Single selection value list:	Use pCR1020 - Pathology Report Text to specify 'List segments (if known) if segmental resection is selected, To specify 'Site/segment of origin' if non-anatomic (wedge resection is selected), use pCR1020 - Pathology Report Text	pCR0760 – Pathology Investigation Type (All values)	pCR0760 – Pathology Investigation Type (All values)
	Segmental resection		EX- Excision; PE - Partial Excision	EX- Excision; PE - Partial Excision
	- List segments (if known)			
	Non-anatomic (wedge) resection		EX- Excision; PE - Partial Excision	EX- Excision; PE - Partial Excision
	- Site/segment of origin			
	Hepatectomy (at transplant)		RE - Radical Excision; PE - Partial Excision	RE - Radical Excision; PE - Partial Excision
				pCR0970 – Specimen Nature (All values)
		1 (Primary tumour)	1 (Primary tumour)	
Specimen weight	Integer	State specimen weight in grams (g)	pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
For segmental resections, specimen dimensions:	Integer (antero-posterior (mm))		Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text	Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text
	Integer (medio-lateral (mm))			
	Integer (supero-inferior (mm))			
Number of tumours present	Integer		Not in the COSD Pathology v4.0.2 data set, although	pLV10010 - Number of Tumours

			could be recorded within pCR1020 - Pathology Report Text	
List maximum tumour diameters (up to largest four):	Integer (mm)	Up to four separate values	pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Satellite tumour(s) present:	Single selection value list:		Not in the COSD Pathology v4.0.2 data set, although could be recorded within pCR1020 - Pathology Report Text	pLV10020 - Satellite Tumour Indicator
	Yes			Y- Yes
	No			N - No
Distance from nearest hepatic resection margin: (mm)	Integer (mm)		pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Macroscopic involvement of vessels	Multiple selection value list:		Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text	Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text
	Main left portal vein			
	Main right portal vein			
	Hepatic vein			
	Vessel not specified			
	No macroscopic involvement			
Diameter of vessel involved (mm)	Integer (mm)	Leave blank if 'Macroscopic involvement of vessels = No macroscopic involvement'	pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Liver capsule intact and smooth	Single selection value list:		Not in the COSD Pathology v4.0.2 data set, although could be recorded within pCR1020 - Pathology Report Text	pLV10030 - Liver Capsule Intact and Smooth
	Yes			Y- Yes
	No			N - No
Invasion of adherent organ or adjacent organ	Single selection value list:		Not in the COSD Pathology v4.0.2 data set, although could be recorded within	pLV10040 - Invasion of Adjacent Organ
	Yes			Y- Yes
	No			N - No

			pCR1020 - Pathology Report Text	
If yes, which organ	Free text	Leave blank if 'Invasion of adherent organ or adjacent organ = No'	Not in the COSD Pathology v4.0.2 data set, although could be recorded within pCR1020 - Pathology Report Text	pLV10050 - Organ Invaded
Lymph node(s) received	Single selection value list:		Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text	Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text
	Yes			
	No			
Histology				
Tumour type	Single selection value list:		Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text	Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text
	HCC NOS			
	Fibrolamellar carcinoma			
	Other histological subtype			
If other specify	Free text	Enter value if 'Tumour type = Other histological subtype'	pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Tumour grade/differentiation by worst area:	Single selection value list:		pCR0860 - Grade of Differentiation (Pathological)	pCR0860 - Grade of Differentiation (Pathological)
	Well		G1 - Well differentiated	G1 - Well differentiated
	Moderate		G2 - Moderately differentiated	G2 - Moderately differentiated
	Poor		G3 - Poorly differentiated	G3 - Poorly differentiated
Tumour cells present at excision margin	Single selection value list:		pCR0880 - Excision Margin	pCR0880 - Excision Margin
	Yes		05 - Tumour reaches excision margin	05 - Tumour reaches excision margin
	No		01 - Excision margins are clear (distance from margin not stated)	01 - Excision margins are clear (distance from margin not stated)
If no, distance to resection margin	Single selection value list:		Not in the COSD Pathology data set, although could be	Not in the COSD Pathology data set, although could be
	<1 mm			
	1-10 mm			

	>10 mm		recorded within pCR1020 - Pathology Report Text	recorded within pCR1020 - Pathology Report Text
State distance	Number (mm)	If 'Distance to resection margin = 1–10 mm, state distance in mm'	pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Macroscopic vascular invasion confirmed	Single selection value list:		Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text	Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text
	Yes			
	No			
Microscopic vascular invasion identified	Single selection value list:		pCR0870 - Cancer Vascular or Lymphatic Invasion	pCR0870 - Cancer Vascular or Lymphatic Invasion
	Present		YU - Yes - vascular/lymphatic invasion present	YU - Yes - vascular/lymphatic invasion present
	Not identified		NU - No - vascular/lymphatic invasion not present	NU - No - vascular/lymphatic invasion not present
Evidence of response to preoperative treatment	Single selection value list:		Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text	Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text
	Yes, complete			
	Yes, incomplete			
	No			
	Not applicable			
Best block of tumour for molecular testing	Free text		pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Background liver	Single selection value list:		pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
	Insufficient for assessment			
Fibrosis	Single selection value list:		Not in the COSD Pathology v4.0.2 data set, although could be recorded within pCR1020 - Pathology Report Text	pLV10060 - Fibrosis in Background Liver
	None present			1 - None present
	If present:			2 - Portal/periportal
	- Portal/periportal			3 - Sinusoidal/pericellular
	- Sinusoidal/pericellular			4 - Both portal and sinusoidal
	- Both portal & sinusoidal			5 - Bridging
	- Bridging			

	- Bridging with nodules			6 - Bridging with nodules
	- Complete cirrhosis			7 - Complete cirrhosis
Aetiology	Multiple selection value list:		Not in the COSD Pathology v4.0.2 data set, although could be recorded within pCR1020 - Pathology Report Text	pLVI0070 - Aetiology of Background Liver Disease
	Hepatitis B			1 - Hepatitis B
	Hepatitis C			2 - Hepatitis C
	Autoimmune hepatitis			3 - Autoimmune hepatitis
	Haemochromatosis			4 - Haemochromatosis
	Alcohol			5 - Alcohol
	NAFLD			6 - Non-Alcoholic Fatty Liver Disease (NAFLD)
	Not known			9 - Not known
	Other			8 - Other
Other	Free text	Please specify if 'Aetiology = Other'	pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Number of lymph nodes examined	Integer		pCR0890 - Number of Nodes Examined	pCR0890 - Number of Nodes Examined
Number of lymph nodes with metastases	Integer		pCR0900 - Number of Nodes Positive	pCR0900 - Number of Nodes Positive
Pathological staging pT	Single selection value list:	Enter values for pT and pN (e.g. pT1a)	pCR0910 - T Category (Pathological) = pT	pCR0910 - T Category (Pathological) = pT
	pT0 No tumour identified			
	pT1a Solitary tumour <20 mm with or without vascular invasion			
	pT1b Solitary tumour >20 mm without vascular invasion			
	pT2 Solitary tumour >20 mm with vascular invasion, or multiple tumours, none >50 mm			

	pT3 Multiple tumours, any >50 mm			
	pT4 Tumour(s) invade a major branch of the portal or hepatic vein or with direct invasion of adjacent organs (includes diaphragm but not gall bladder) or perforates visceral peritoneum			
Pathological staging pN	Single selection value list:		pCR0920 - NCategory (Pathological) = pN	pCR0920 - NCategory (Pathological) = pN
	pN0 No lymph node metastases			
	pN1 Lymph node metastases			
Pathological staging pM	Free text		pCR0930 - NCategory (Pathological) = pM	pCR0930 - NCategory (Pathological) = pM
TNM edition number used	UICC8, UICC9	Within COSD, version number and edition are separate but should be reported together	pCR6820 - TNMVersion Number (Pathological)	pCR6820 - TNMVersion Number (Pathological)
			pCR6980 - TNMCoding Edition	pCR6980 - TNMCoding Edition
SNOMED-CT codes		May have multiple codes. Look up from SNOMED tables.	pCR6410 - Topography (SNOMED) Pathology	pCR6410 - Topography (SNOMED) Pathology
SNOMED-CT codes		May have multiple codes. Look up from SNOMED tables.	pCR6420 - Morphology (SNOMED) Pathology	pCR6420 - Morphology (SNOMED) Pathology
Comments/additional information	Free text		pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text