

COSD mapping for Appendix F: Reporting proforma for lung cancer resection specimens 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
Previous treatment (neoadjuvant chemotherapy / radiotherapy)	Single selection value list:		pCR1000 - Neoadjuvant Therapy Indicator	pCR1000 - Neoadjuvant Therapy Indicator
	Yes		Y- Yes	Y- Yes
	No		N - No	N - No
	Not known		9 - Not known	9 - Not known
Laterality	Single selection value list:		pCR0820 - Tumour Laterality (Pathological)	pCR0820 - Tumour Laterality (Pathological)
	Right lung		R - Right	R - Right
	Left lung		L - Left	L - Left
	Not known		9 - Not known	9 - Not known
Surgical access	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
	VATS			
	VATS converted to open			
	Open			
	Not known			
Resection type	Single selection value list:	If 'other' use pCR1020 - Pathology Report Text	pCR0760 – Pathology Investigation Type (All values)	pCR0760 – Pathology Investigation Type (All values)
	Single wedge resection		EX- Excision	EX- Excision
	Multiple wedge resections		EX- Excision	EX- Excision
	Segmentectomy		EX- Excision; PE - Partial Excision	EX- Excision; PE - Partial Excision
	Sleeve resection		EX- Excision; PE - Partial Excision	EX- Excision; PE - Partial Excision

	Pneumonectomy (extrapericardial)		EX- Excision; RE - Radical Excision	EX- Excision; RE - Radical Excision
	Pneumonectomy (intrapericardial)		EX- Excision; RE - Radical Excision	EX- Excision; RE - Radical Excision
	Lobectomy/bi-lobectomy		EX- Excision; PE - Partial Excision	EX- Excision; PE - Partial Excision
	Other		99 - Uncertain/other	99 - Uncertain/other
			pCR0970 – Specimen Nature (All values)	pCR0970 – Specimen Nature (All values)
			1 (Primary tumour)	1 (Primary tumour)
Resection type, other (specify)	Free text	Only applicable if 'Resection type, Other' is selected.	pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Attached anatomical structures	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
	None submitted			
	Submitted			
Attached anatomical structures, submitted (specify)	Free text	Only applicable if 'Attached anatomical structures, Submitted' is selected.	pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Location of tumour	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
	Hilar/endobronchial/central			
	Right upper lobe			
	Right middle lobe			
	Right lower lobe			
	Left upper lobe			
	Left lower lobe			
	Cannot be assessed			
	Other			
	Free text			

Location of tumour, other (please state)		Only applicable if 'Location of tumour, Other' is selected.	pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Relationship to carina and main bronchus	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
	Involves carina (pT4)			
	Involves main bronchus (pT2)			
	Cannot be assessed			
Invasive tumour size	Size in mm		pCR0830 - Lesion Size (Pathology)	pCR0830 - Lesion Size (Pathology)
Invasive tumour size, assessable	Single selection value list:	'Assessable' if value given for invasive tumour size.	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
	Assessable			
	Not assessable			
Whole tumour size (if adenocarcinoma)	Size in mm		pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Whole tumour size, assessable	Single selection value list:	'Assessable' if value given for invasive tumour size.	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
	Assessable			
	Not assessable			
	Not applicable			
Extent of atelectasis/obstructive pneumonia	Single selection value list:		pLU10110 - Extent of Atelectasis	pLU10110 - Extent of Atelectasis
	None/less than below		5 - None/less than the other category	5 - None/less than the other category
	Atelectasis or obstructive pneumonitis that extends to the hilar region, either involving part of the lung or the whole lung (T2)		4 - Extends to the hilar region, either involving part of the lung or the whole lung	4 - Extends to the hilar region, either involving part of the lung or the whole lung
Histological 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
	Squamous cell carcinoma			
	Large cell undifferentiated carcinoma			

	Small cell carcinoma			
	Large cell neuroendocrine carcinoma			
	Typical carcinoid			
	Atypical carcinoid			
	Adenocarcinoma			
	Combined tumours			
	Other tumour			
Adenocarcinoma, type	Single selection value list:	Only applicable if 'Histological type, Adenocarcinoma' is selected.	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
	Invasive non-mucinous adenocarcinoma			
	Invasive mucinous adenocarcinoma			
	Adenocarcinoma in situ			
	Minimally invasive adenocarcinoma			
	Variants of adenocarcinoma			
Lepidic	Numeric value (0–100)	Only applicable if 'Histological type, Adenocarcinoma' is selected.	pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Acinar	Numeric value (0–100)	Only applicable if 'Histological type, Adenocarcinoma' is selected.	pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Papillary	Numeric value (0–100)	Only applicable if 'Histological type, Adenocarcinoma' is selected.	pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Micropapillary	Numeric value (0–100)	Only applicable if 'Histological type, Adenocarcinoma' is selected.	pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Solid	Numeric value (0–100)	Only applicable if 'Histological type, Adenocarcinoma' is selected.	pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
	Single selection value list:			

Mucinous/Non-mucinous	Mucinous	Only applicable if 'Histological type, Adenocarcinoma' is selected.	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
	Non-mucinous			
	Mixed mucinous/nonmucinous (>10% of each)			
	Not applicable			
Variants of adenocarcinoma, specify	Single selection value list:	Only applicable if 'Adenocarcinoma type, Variants of adenocarcinoma' is selected.	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
	Mucinous (colloid)			
	Fetal			
	Enteric			
	Not applicable			
Combined tumour, specify	Free text	Only applicable if 'Histological type, Combined tumour' is selected.	pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Other tumour, specify	Free text	Only applicable if 'Histological type, Other tumour' is selected.	pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Extent of pleural invasion	Single selection value list:		pLU10120 - Extent of Plural Invasion	pLU10120 - Extent of Plural Invasion
	No pleural invasion		1 - No pleural invasion	1 - No pleural invasion
	Visceral pleura only		2 - Visceral pleura only	2 - Visceral pleura only
	Parietal pleura/chest wall		3 - Parietal pleura/chest wall	3 - Parietal pleura/chest wall
Pericardium (pT3)	Single selection value list:		pLU10130 - Pericardial Invasion	pLU10130 - Pericardial Invasion
	Yes		Y- Yes	Y- Yes
	No		N- No	N- No
	Cannot be assessed		9 - Not known (Cannot be assessed)	9 - Not known (Cannot be assessed)
Mediastinum (pT4)	Single selection value list:		pLU10190 - Invasion Into Mediastinum	pLU10190 - Invasion Into Mediastinum
	Yes		Y- Yes	Y- Yes
	No		N- No	N- No

	Cannot be assessed		9 - Not known (Cannot be assessed)	9 - Not known (Cannot be assessed)
Diaphragm (pT4)	Single selection value list:		pLU10140 - Diaphragm Invasion	pLU10140 - Diaphragm Invasion
	Yes		Y- Yes	Y- Yes
	No		N- No	N- No
	Cannot be assessed		9 - Not known (Cannot be assessed)	9 - Not known (Cannot be assessed)
Great vessel (aorta, central pulmonary artery or vein) (T4)	Single selection value list:		pLU10150 - Invasion Into Great Vessel	pLU10150 - Invasion Into Great Vessel
	Yes		Y- Yes	Y- Yes
	No		N- No	N- No
	Cannot be assessed		9 - Not known (Cannot be assessed)	9 - Not known (Cannot be assessed)
Atrium, heart (pT4)	Single selection value list:		pLU10160 - Invasion Into Heart	pLU10160 - Invasion Into Heart
	Yes		Y- Yes	Y- Yes
	No		N- No	N- No
	Cannot be assessed		9 - Not known (Cannot be assessed)	9 - Not known (Cannot be assessed)
Malignant pleural effusion (pM1a)	Single selection value list:		pLU10170 - Malignant Pleural Effusion	pLU10170 - Malignant Pleural Effusion
	Yes		Y- Yes	Y- Yes
	No		N- No	N- No
	Cannot be assessed		9 - Not known (Cannot be assessed)	9 - Not known (Cannot be assessed)
Separate tumour nodules	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
	Absent			
	Present			
	Cannot be assessed			
Synchronous primary tumours	Single selection value list:		Not in the COSD Pathology data set, although could be	Not in the COSD Pathology data set, although could be
	Absent			
	Present			

			recorded within pCR1020 - Pathology Report Text	recorded within pCR1020 - Pathology Report Text
Satellite nodules (intrapulmonary metastases)	Multiple selection value list:	There are additional values in LU10180 for 'No separate tumour nodules' and 'Not known', which may be of use when mapping data sets.	pLU10180 - Satellite Tumour Nodules Location (all values)	pLU10180 - Satellite Tumour Nodules Location (all values)
	Satellite tumour nodules in same lobe (pT3)		1 - Separate tumour nodules in same lobe	1 - Separate tumour nodules in same lobe
	Satellite tumour nodules in different ipsilateral lobe (pT4)		2 - Separate tumour nodules in a different ipsilateral lobe	2 - Separate tumour nodules in a different ipsilateral lobe
	Satellite tumour nodules in contralateral lobe (pM1a)		3 - Separate tumour nodules in a contralateral lobe	3 - Separate tumour nodules in a contralateral lobe
Pleural invasion	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
	PL0 (no pleural involvement)			
	PL1 (breaching of the outer layer of the visceral pleura but no extension to the pleural surface)			
	PL2 (breaching of the outer layer of the visceral pleura and extension to the pleural surface)			
	PL3 (involvement of the parietal pleura)			
	Extent of pleural invasion cannot be assessed			
Ipsilateral hilar/intrapulmonary (node stations 10–14)	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
	Submitted			
	Not submitted			
Ipsilateral hilar/intrapulmonary (node stations 10–14), involved	Single selection value list:	Not applicable if 'Ipsilateral hilar/intrapulmonary (node stations 10–14), Not submitted' is selected.	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
	Involved (N1)			
	Not involved			
	Not applicable			
	Single selection value list:			

Ipsilateral mediastinal (node stations 1–9)	Submitted		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
	Not submitted			
Ipsilateral mediastinal (node stations 1–9), involved	Single selection value list:	Not applicable if ‘Ipsilateral mediastinal (node stations 1–9), Not submitted’ is selected.	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
	Involved (N2)			
	Not involved			
	Not applicable			
Contralateral mediastinal, hilar nodes	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
	Submitted			
	Not submitted			
Contralateral mediastinal, hilar nodes, involved	Single selection value list:	Not applicable if ‘Contralateral mediastinal, hilar nodes, Not submitted’ is selected.	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
	Involved (N3)			
	Not involved			
	Not applicable			
Ipsilateral or contralateral scalene or supraclavicular nodes	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
	Submitted			
	Not submitted			
Ipsilateral or contralateral scalene or supraclavicular nodes, involved	Single selection value list:	Not applicable if ‘Ipsilateral or contralateral scalene or supraclavicular nodes, Not submitted’ is selected.	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
	Involved (N3)			
	Not involved			
	Not applicable			
Bronchial margin	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
	Not involved			
	Involved			
	Uncertain			
	Not applicable			
Mediastinal 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
	Not involved			
	Involved			

	Uncertain		recorded within pCR1020 - Pathology Report Text	recorded within pCR1020 - Pathology Report Text
	Not applicable			
Vascular margin	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
	Not involved			
	Involved			
	Uncertain			
	Not applicable			
Chest wall margin	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
	Not involved			
	Involved			
	Uncertain			
	Not applicable			
Distance of tumour to closest resection margin	Size in mm		pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Distance of tumour to closest resection margin, specify	Free text		pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
Lymphovascular invasion	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
	Absent		NU - No - vascular/lymphatic invasion not present	NU - No - vascular/lymphatic invasion not present
	Indeterminate		UU - Uncertain whether vascular/lymphatic invasion is present or not	UU - Uncertain whether vascular/lymphatic invasion is present or not
Response to neoadjuvant therapy	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
	Not applicable			
	Less than 10% residual viable tumour			

	More than 10% residual viable tumour			
	Treatment history not known			
Metastases	Single selection value list:	If 'Not identified in this specimen' is required to be noted, use pCR1020 - Pathology Report Text	pCR0930 - MCategory (Pathological) = pM	pCR0930 - MCategory (Pathological) = pM
	Not identified in this specimen			
	Pleural or pericardial nodules (M1a)			
	Single metastasis in single extrathoracic organ (M1b)			
	Multiple metastases in single or multiple extrathoracic organs (M1c)			
Metastases, details	Free text		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
Epidermal growth factor mutation present	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			
	Not assessed			
ALK translocation present	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			
	Not assessed			
PD-L1 status, percentage of tumour cells positive	Numeric value		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
PD-L1 status, assessed	Single selection value list:	Assessed if numeric value entered for PD-L1 status, percentage of tumour cells positive.	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
	Assessed			
	Not assessed			

PD-L1 status, antibody used	Free text		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
PD-L1 test	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
	Commercial assay (companion diagnostic)			
	Laboratory derived test (LDT)			
TNM version	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
pT stage	Single selection value list:		pCR0910 - TCategory (Pathological) = pT	pCR0910 - TCategory (Pathological) = pT
	pT X ; pT0; pT1a; pT1b; pT1c; pT2a; pT2b; pT3; pT4			
pN stage	Single selection value list:		pCR0920 - NCategory (Pathological) = pN	pCR0920 - NCategory (Pathological) = pN
	pNX; pN0; pN1; pN2a; pN2b; pN3			
pM stage	Single selection value list:	If 'Not identified in this specimen' is required to be noted, use pCR1020 - Pathology Report Text	pCR0930 - MCategory (Pathological) = pM	pCR0930 - MCategory (Pathological) = pM
	Not applicable; pM1a; pM1b; pM1c; pM1c1; pM1c2			
Complete resection at all margins	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 (R0)			
	No (R1)			
	No (R2)			
SNOMED topography code	T...	May have multiple codes. Look up from SNOMED tables.	pCR6410 - Topography (SNOMED) Pathology = T	pCR6410 - Topography (SNOMED) Pathology = T

SNOMED morphology code	M..	May have multiple codes. Look up from SNOMED tables.	pCR6420 - Morphology (SNOMED) Pathology=M	pCR6420 - Morphology (SNOMED) Pathology=M
Further comments	Free text		pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text