

## COSD mapping for Appendix D: Reporting proforma for appendiceal mucinous neoplasms and adenocarcinoma in list format

RCPATH Data set item element name	Values	Implementation comments	COSD Pathology v4.0.2 (2020)	COSD Pathology v5.1.1 (2024)
<b>Surname</b>			CR0050 - Person Family Name	CR0050 - Person Family Name
<b>Forenames</b>			CR0060 - Person Given Name	CR0060 - Person Given Name
<b>Date of birth</b>			CR0100 - Person Birth Date	CR0100 - Person Birth Date
<b>Sex</b>			CR3170 - Person Stated Gender Code	CR3170 - Person Stated Gender Code
<b>Hospital</b>			pCR0800 - Organisation Identifier (of Reporting Pathologist)	pCR0800 - Organisation Identifier (of Reporting Pathologist)
<b>Hospital no</b>			CR0020 - Local Patient Identifier	CR0020 - Local Patient Identifier
<b>NHS/CHI no</b>		CHI number not recorded in COSD	CR0010 - NHS Number	CR0010 - NHS Number
<b>Date of receipt</b>			pCR0770 - Sample Receipt Date	pCR0770 - Sample Receipt Date
<b>Date of reporting</b>			pCR0780 - Investigation Result Date	pCR0780 - Investigation Result Date
<b>Report no</b>			pCR0950 - Service Report Identifier	pCR0950 - Service Report Identifier
<b>Pathologist</b>			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)
<b>Surgeon</b>			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
<b>Specimen type</b>	Single selection value list:	If 'other', please state, use pCR1020 - Pathology Report Text	pCR0760 – Pathology Investigation Type (All values)	pCR0760 – Pathology Investigation Type (All values)
	Appendicectomy		EX- Excision; RE - Radical Excision	EX- Excision; RE - Radical Excision
	Right hemicolectomy		EX- Excision; RE - Radical Excision	EX- Excision; RE - Radical Excision
	Other		99 - Uncertain/other	99 - Uncertain/other
			pCR0970 – Specimen Nature (All values)	pCR0970 – Specimen Nature (All values)
			1 (Primary tumour)	1 (Primary tumour)
<b>Other organs</b>	Single selection value list:	If 'yes', please 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			
<b>Length of appendix</b>	Length in mm		pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
<b>Maximum external diameter of appendix</b>	Diameter in mm		pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
<b>Appearance of appendix</b>	Single selection value list:	If 'other', please state.	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
	Normal			
	Distended mucin-filled			
	Diffuse thickening of wall			

	Tumour nodule			
	Other			
<b>Maximum diameter of tumour</b>	Diameter in mm	Please state if cannot be accurately measured, use pCR1020 - Pathology Report Text	pCR0830 - Lesion Size (Pathology)	pCR0830 - Lesion Size (Pathology)
<b>Perforation</b>	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			
<b>Perforation is through macroscopically visible tumour</b>	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 applicable			
<b>Mucin visible on serosa</b>	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			
<b>Any other pathological abnormalities</b>	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
<b>For appendicectomies: Caecal wall included</b>	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			
<b>For appendicectomies: Distance of tumour from proximal and mesoappendiceal margins</b>	Single selection value list:	If a margin is macroscopically $\geq 30$ mm from tumour, it is sufficient simply to provide this measurement. If a margin is macroscopically $< 30$ mm from tumour, take block(s) to allow microscopic measurement of distance.	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
	If $\geq 30$ mm, specify which margin(s) and macroscopic clearance			
	If $< 30$ mm, specify which margin(s)			

<b>For colectomies: Length of specimen</b>	Length in mm		pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text
<b>Distance of tumour from longitudinal ends and non-peritonealised circumferential margin(s)</b>	Single selection value list:	If a margin is macroscopically $\geq 30$ mm from tumour, it is sufficient simply to provide this measurement. If a margin is macroscopically $< 30$ mm from tumour, take block(s) to allow microscopic measurement of distance.	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
	If $\geq 30$ mm, specify which margin(s) and macroscopic clearance			
	If $< 30$ mm, specify which margin(s)			
<b>Type of tumour</b>	Single selection value list:		It may be possible to use pCR6420 - Morphology (SNOMED) Pathology to record the type of tumour, if not then record the information within pCR1020 - Pathology Report Text	It may be possible to use pCR6420 - Morphology (SNOMED) Pathology to record the type of tumour, if not then record the information within pCR1020 - Pathology Report Text
	Low-grade appendiceal mucinous neoplasm (LAMN)			
	High-grade appendiceal mucinous neoplasm (HAMN)			
	Mucinous adenocarcinoma			
	Mucinous adenocarcinoma with signet ring cells			
	Non-mucinous adenocarcinoma			
	Goblet cell adenocarcinoma (GCA)			
	Other			
<b>Grade for mucinous tumours</b>	Single selection value list:	Use pCR1020 - Pathology Report Text if additional information required  Signet ring cells should be reported if they comprise at least 10% of the neoplastic cells.	pCR0860 - Grade of Differentiation (Pathological)	pCR0860 - Grade of Differentiation (Pathological)
	G1: LAMN		G1 - Well differentiated	G1 - Well differentiated
	G2: HAMN and most mucinous adenocarcinomas without signet ring cells		G2 - Moderately differentiated	G2 - Moderately differentiated
	G3: mucinous adenocarcinomas with signet ring cells (or, rarely, sheets of poorly differentiated cells)		G3 - Poorly differentiated	G3 - Poorly differentiated

<b>Grade for non-mucinous adenocarcinomas</b>	Single selection value list:		pCR0860 - Grade of Differentiation (Pathological)	pCR0860 - Grade of Differentiation (Pathological)
	Low grade (G1/2)		G1 - Well differentiated	G1 - Well differentiated
	High grade (G3)		G3 - Poorly differentiated	G3 - Poorly differentiated
<b>Grade for goblet cell adenocarcinomas</b>	Single selection value list:		pCR0860 - Grade of Differentiation (Pathological)	pCR0860 - Grade of Differentiation (Pathological)
	G1 (>75% low-grade pattern)	Signet ring cells should be reported if they comprise at least 10% of the neoplastic cells.	G1 - Well differentiated	G1 - Well differentiated
	G2 (50–75% low-grade pattern)		G2 - Moderately differentiated	G2 - Moderately differentiated
	G3 (<50% low grade pattern)		G3 - Poorly differentiated	G3 - Poorly differentiated
<b>Perforation at the site of tumour</b>	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			
<b>Perforation away from tumour</b>	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			
<b>Any other findings</b>	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
<b>Local spread: furthest extent of tumour (either neoplastic cells or acellular mucin)</b>	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
	Confined to mucosa (pTis)			
	Submucosa (pTis(LAMN) or pT1)			
	Muscularis propria (pTis(LAMN) or pT2)			
	Subserosal fat/mesoappendix (pT3)			
	Involves or beyond serosa (pT4a)			

	Directly invades adjacent structures (pT4b)			
	Not applicable/cannot be assessed			
<b>Neoplastic epithelial cells involve or lie beyond serosa</b>	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			
<b>Angiolymphatic and perineural invasion: venous invasion</b>	Single selection value list:	Only applicable for adenocarcinomas and GCAs. Select worst based on following priority	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			
<b>Angiolymphatic and perineural invasion: Lymphatic invasion</b>	Single selection value list:	Only applicable for adenocarcinomas and GCAs.	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			
<b>Angiolymphatic and perineural invasion: Perineural invasion</b>	Single selection value list:	Only applicable for adenocarcinomas and GCAs.	Not in the COSD Pathology v4.02 data set, although could be recorded within pCR1020 - Pathology Report Text	pCR1 100 - Perineural Invasion (all values)
	Yes			1 - Present
	No			2 - Not identified
<b>Proximal appendiceal margin</b>	Single selection value list:	Only applicable for appendicectomies. If 'clear', please state distance in mm if possible.	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
	Clear			
	Mucosal neoplasm present at margin			
	Mural/extra-appendiceal epithelium or mucin present at margin			
	Not assessable			
<b>Mesoappendiceal margin</b>	Single selection value list:	Only applicable for appendicectomies. If 'clear', please state distance in mm if possible.	pCO5300 - Status of Circumferential Excision Margin	pCR1 150 - Excision Margin (Circumferential)
	Clear		0 - Margin not involved	0 - Margin not involved

	Neoplastic epithelium or mucin present at margin		1 - Margin involved	1 - Margin involved
	Not assessable		3 - Not known	9 - Not known
<b>Appendicectomies other margin (describe)</b>	Free text	Only applicable for other margin	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
<b>Right hemicolectomies longitudinal margins</b>	Single selection value list:	Only applicable for right hemicolectomies. If 'clear', please state distance in mm if possible.	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 by pathologist			
	Clear			
	Mucosal neoplasm present at margin			
	Mural/extra-appendiceal epithelium or mucin present at margin			
	Not assessable			
<b>Right hemicolectomies nonperitonealised circumferential margin</b>	Single selection value list:	Only applicable for right hemicolectomies. If 'clear', please state distance in mm if possible using pCR1020 - Pathology Report Text.	pCO5300 - Status of Circumferential Excision Margin	pCR1150 - Excision Margin (Circumferential)
	Not submitted by pathologist			8 - Not applicable
	Clear		0 - Margin not involved	0 - Margin not involved
	Neoplastic epithelium or mucin present at margin		1 - Margin involved	1 - Margin involved
	Not assessable		3 - Not known	9 - Not known
<b>Right hemicolectomies other margin (describe)</b>	Free text	Only applicable for other margin.	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
<b>Number of regional lymph nodes (mesoappendiceal and ileocolic)</b>	Integer		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

<b>Number of non-regional nodes</b>	Integer		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
<b>Total number of nodes</b>	Integer		pCR0890 - Number of Nodes Examined	pCR0890 - Number of Nodes Examined
<b>Number of regional nodes containing tumour</b>	Integer		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
<b>Number of non-regional nodes containing tumour</b>	Integer	Not applicable if no non-regional nodes.	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
<b>Total number of nodes containing tumour</b>	Integer	Not applicable if no nodes present.	pCR0900 - Number of Nodes Positive	pCR0900 - Number of Nodes Positive
<b>Tumour deposits (satellites)</b>	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 applicable			
<b>Tumour deposits (satellites) number</b>	Single selection value list:	Only applicable if 'Tumour deposits (satellites), yes' 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
	1			
	2			
	3			
	4			
	5			
	>5			
<b>Peritoneal metastases</b>	Single selection value list:	Includes involvement of ovaries. If 'yes', please state organs involved.	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			
	Single selection value list:			



<b>Is peritoneal disease pseudomyxoma peritonei?</b>	Yes		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
	No			
<b>Classification of pseudomyxoma peritonei</b>	Single selection value list:	Only applicable if 'Is peritoneal disease pseudomyxoma peritonei?', yes' is selected. Signet ring cells should be reported if they comprise at least 10% of the neoplastic cells.	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
	Acellular mucin			
	Low-grade mucinous carcinoma peritonei (G1)			
	High-grade mucinous carcinoma peritonei (usually G2; rarely, G3 if there are sheets of poorly differentiated cells)			
	High-grade mucinous carcinoma peritonei with signet ring cells (G3)			
<b>Histologically confirmed distant metastases, i.e. metastases not derived from peritoneal spread</b>	Single selection value list:	If 'yes', please state the site(s).	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			
<b>Other abnormalities</b>	Single selection value list:	If 'yes', please state.	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			
<b>Additional tumours present</b>	Single selection value list:	If 'yes', please specify and use separate proforma.	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			
<b>Overall grade (higher of local and peritoneal</b>	Single selection value list:		pCR0860 - Grade of Differentiation (Pathological)	pCR0860 - Grade of Differentiation (Pathological)
	G1		G1 - Well differentiated	G1 - Well differentiated

<b>disease if discordant in pseudomyxoma peritonei)</b>	G2		G2 - Moderately differentiated	G2 - Moderately differentiated
	G3		G3 - Poorly differentiated	G3 - Poorly differentiated
	Cannot be assessed or not applicable		GX- Grade of differentiation is not appropriate or cannot be assessed	GX- Grade of differentiation is not appropriate or cannot be assessed
<b>Complete resection at all surgical margins (R0)</b>	Single selection value list:		pCR0880 - Excision Margin	pCR0880 - Excision Margin
	Yes		01 - Excision margins are clear (distance from margin not stated)	01 - Excision margins are clear (distance from margin not stated)
	No		05 - Tumour reaches excision margin	05 - Tumour reaches excision margin
<b>SNOMED topography code</b>	T...	May have multiple codes. Look up from SNOMED tables.	pCR6410 - Topography (SNOMED) Pathology = T	pCR6410 - Topography (SNOMED) Pathology = T
<b>SNOMED morphology code</b>	M...	May have multiple codes. Look up from SNOMED tables.	pCR6420 - Morphology (SNOMED) Pathology = M	pCR6420 - Morphology (SNOMED) Pathology = M
<b>UICC TNM pT category</b>	Free text		pCR0910 - TCategory (Pathological) = pT	pCR0910 - TCategory (Pathological) = pT
<b>UICC TNM pN category</b>	Free text		pCR0920 - NCategory (Pathological) = pN	pCR0920 - NCategory (Pathological) = pN
<b>UICC TNM pM category</b>	Free text		pCR0930 - NCategory (Pathological) = pM	pCR0930 - NCategory (Pathological) = pM
<b>TNM edition number used</b>	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
<b>Further comments</b>	Free text		pCR1020 - Pathology Report Text	pCR1020 - Pathology Report Text