

A guide to Colon Cancer Histopathology Reporting



Clinical details		Microscopic findings	
S1.02	Clinical information provided on request form (complete as narrative or use the structured format below)	Text	
	Operating surgeon name & contact details	Text	
	Perforation	Absent Present	
	If present, record the nature of perforation	See p3	
	Clinical obstruction	Absent Present	
	Tumour location	See p3	
	For synchronous tumours indicate each other site	Text	
	Type of operation	See p3	
	Pre-operative radiotherapy	Yes/No	
	If yes, was it....	Short course Long course	
	Surgeon's opinion on the existence of local residual cancer postsurgery	Text	
	Involvement of adj. organs	Text	
	New primary cancer or recurrence	New primary Local recurr Distant met.	
	If regional (local) recurrence or distant metastasis describe	Text	
S1.03	Pathology accession number	Text	
G1.01	Other relevant details	Text	
Macroscopic findings			
S2.01	Specimen length	___ mm	
S2.02	Tumour site	See p3	
S2.03	Maximum tumour diameter	___ mm	
S2.04	Dist. of tumour to nearer proximal or distal 'cut end' margin	___ mm	
S2.05	Distance of tumour to the nonperitonealised circumferential margin	___ mm	
S2.06	Tumour perforation	Absent Present	
G2.01	Peritoneum	See p3	
G2.02	Lymph nodes	Not recieved Received	
	If received, record number of nodes per cassette	___ /cass.	
G2.03	Polyps	Absent Present	
	If present, provide a polyp summary	Text	
G2.04	Other macroscopic comments	Text	
S2.09	Nature and site of blocks	Text	
S3.01	Tumour type	See p3	
S3.02	Histological grading	Low grade High grade	
S3.03	Maximum degree of local invasion into or through the bowel wall	pT1 pT2 pT3 pT4a pT4b	
S3.04	Involvement of the proximal or distal resection ('cut end') margins	Involved Not involved	
	If involved, which margin(s)	Distal Proximal	
	If not involved, what is clearance	___ mm OR Clearance ≥10mm	
S3.06	Lymph node involvement	Absent Present	
	If present, record site(s) and number of positive lymph nodes/ total no. of LN from this site	Text (Site) AND ___/___	
	Isolated extra-mural tumour deposits	Absent Present	
G3.01	Apical node involvement	Not applicable Absent Present	
S3.07	Venous and small vessel invasion		
	Intramural vein invasion	Not identified Present	
	Extramural vein invasion	Not identified Present	
	Small vessel invasion	Not identified Present Present,extensive	
G3.02	Perineural invasion	Not identified Present Present,extensive	
S3.08	Histologically confirmed distant metastases	Absent Present	
	If present, indicate..	Site(s)	
S3.09	Relevant coexistent pathological abnormalities	See p3	
S3.10	Microscopic residual tumour status (completeness of resection)	Text	
S3.11	Response to neoadjuvant therapy (refer to Notes p3)	Grade 0 Grade 1 Grade 2 Grade 3	
G3.03	Microscopic comments	Text	

Ancillary test findings

G4.01	Mismatch repair enzymes:	
	MLH-1	Not tested Normal staining Loss of staining
	PMS-2	Not tested Normal staining Loss of staining
	MSH-2	Not tested Normal staining Loss of staining
	MSH-6	Not tested Normal staining Loss of staining
	Comments	Text
	Microsatellite instability (MSI)	Unstable Stable Not tested
	Laboratory performing test and report number	Text
	Comments	Text
	BRAF (V600E mutation)	Mutated Wild type Not tested
	Laboratory performing test and report number	Text
	Comments	Text
G4.02	RAS gene mutation testing (KRAS exons 2,3,or 4, NRAS exons 2,3 or 4 or RAS mutation)	Mutated Wild type Not tested
	Laboratory performing test and report number	Text
	Comments	Text

Synthesis and overview

S5.01	Tumour stage and stage grouping	See p2
S5.02	Year and/or edition of staging system	Text
S5.03	Residual tumour status	See p3
G5.01	Diagnostic summary Include: a. specimen type (S1.02) b. tumour site (S2.02) c. tumour type (S3.01) d. tumour stage (S5.01) e. completeness of excision (S5.03)	Text
S5.04	New primary cancer or recurrence	New primary Regional recurr Distant met. Indeterminate
	If regional (local) recurrence or distant metastasis describe	Text
S5.05	Overarching comments	Text

S5.01 Tumour stage**

T classification Primary tumour

TX	Primary tumour cannot be assessed
T0	No evidence of primary tumour
Tis	Carcinoma in situ: intraepithelial or invasion of lamina propria
T1	Tumour invades submucosa
T2	Tumour invades muscularis propria
T3	Tumour invades through the muscularis propria into pericolorectal tissues
T4a	Tumour penetrates to the surface of the visceral peritoneum
T4b	Tumour directly invades or is adherent to other organs or structures

N classification Regional lymph nodes

NX	Regional lymph nodes cannot be assessed
N0	No regional lymph node metastasis
N1	Metastasis in 1-3 regional lymph nodes
N1a	Metastasis in one regional lymph node
N1b	Metastasis in 2-3 regional lymph nodes
N1c	Tumour deposit(s) in the subserosa, mesentery, or nonperitonealised pericolic or perirectal tissues without regional nodal metastasis
N2	Metastasis in 4 or more regional lymph nodes
N2a	Metastasis in 4-6 regional lymph nodes
N2b	Metastasis in 7 or more regional lymph nodes

M classification Distant metastasis

M0	No distant metastasis
M1	Distant metastasis
M1a	Metastasis confined to one organ or site (e.g. liver, lung, ovary, nonregional node)
M1b	Metastases in more than one organ/site or the peritoneum

Stage Grouping

Stage	T	N	M
0	Tis	N0	M0
I	T1	N0	M0
	T2	N0	M0
IIA	T3	N0	M0
	T4a	N0	M0
IIB	T4b	N0	M0
	T1-T2	N1/N1c	M0
IIIA	T1	N2a	M0
	T3-T4a	N1/N1c	M0
IIIB	T2-T3	N2a	M0
	T1-T2	N2b	M0
IIIC	T4a	N2a	M0
	T3-T4a	N2b	M0
IVB	T4b	N1-N2	M0
	Any T	Any N	M1a
IVA	Any T	Any N	M1b

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NOTES

S1.02 Nature of perforation

- Through tumour prior to surgery
- Through tumour during surgical mobilisation
- Away from tumour

S1.02 Tumour location

S2.02 Tumour site

- Caecum
- Ascending colon
- Hepatic flexure
- Transverse colon
- Splenic flexure
- Descending colon
- Sigmoid colon
- Rectosigmoid junction
- Rectum

S1.02 Type of operation

- Right hemicolectomy
- Extended right hemicolectomy
- Transverse colectomy
- Left hemicolectomy
- Anterior resection (High, Low, Ultralow)
- Abdominoperineal resection
- Proctocolectomy
- Total colectomy with ileorectal anastomosis
- Hartmann's procedure
- Other procedure(s) (specify)

G2.01 Peritoneum

- Tumour invades to the peritoneal surface
- Tumour has formed nodule(s) discrete from the tumour mass along the serosal surface

S3.01 Tumour type

- Adenocarcinoma, NOS
- Cribriform comedo-type adenocarcinoma
- Medullary carcinoma, NOS
- Micropapillary carcinoma
- Colloid carcinoma
- Serrated adenocarcinoma
- Signet ring cell carcinoma
- Adenosquamous carcinoma
- Spindle cell carcinoma, NOS
- Squamous cell carcinoma, NOS
- Undifferentiated carcinoma

S3.10 Relevant coexistent pathological abnormalities

- None noted
- Polyps (describe type, number, polyposis syndrome criteria met etc)
- Ulcerative colitis (with dysplasia/without dysplasia)
- Crohn's disease (with dysplasia/without dysplasia)
- Other (specify)

S3.11 Response to neoadjuvant therapy

No prior treatment

Grade 0 (complete response) No viable cancer cells

Grade 1 (moderate response) Single cells or small groups of cancer cells

Grade 2 (minimal response) Residual cancer outgrown by fibrosis

Grade 3 (poor response) Minimal or no tumour kill; extensive residual cancer.

S5.02 Residual tumour status**

R0: Complete resection, margins histologically negative, no residual tumour left after resection (primary tumour, regional nodes)

R1: Incomplete resection, margins histologically involved, microscopic tumour remains after resection of gross disease (primary tumour, regional nodes)

R2: Incomplete resection, margins macroscopically involved or gross disease remains after subtotal resection (eg primary tumour, regional nodes, or liver metastasis).