

A guide to Colorectal Cancer Histopathology Reporting



Clinical details		
G1.02	Pathology accession number	Text
S1.02	Principal clinician caring for the patient	Text
S1.04	Patient presentation at surgery	
	Perforation	Absent Present Not stated
	If present, record the nature of perforation	See p3
	Obstruction	Absent Present Not stated
S1.05	Tumour location	See p3
	For synchronous tumours indicate each other site	Text
S1.06	Distance from the anal verge (for rectal tumours only)	___ cm Not stated
S1.07	Type of operation	See p3
S1.08	Pre-operative radiotherapy	Yes/No Not stated
	If yes, was it....	Short course Long course
S1.09	Surgeon's opinion on the existence of local residual cancer postsurgery	Text Not stated
S1.10	Involvement of adjacent organs	Text Not stated
S1.11	Presence of distant metastases	Yes/No Not stated
	If yes give details.	
G1.03	Any other relevant information	Text
Macroscopic findings		
G2.02	Images of the gross specimen	Include if avail.
S2.02	Nature and site of blocks	Text
S2.04	Specimen length	___ mm
S2.05	Tumour site	See p3
S2.06	Maximum tumour diameter	___ mm
S2.07	Distance of tumour to the nearer proximal or distal 'cut end' margin	___ mm
S2.08	Distance of tumour to the nonperitonealised circumferential margin	___ mm
S2.09	Tumour perforation	Absent Present
S2.10	Relationship to anterior peritoneal reflection (rectal tumours)	Entirely above Astride Entirely below
S2.11	Intactness of mesorectum (rectal resections) (refer to p3 Notes)	Incomplete Near complete Complete
S2.12	Macroscopic comments	Text
Microscopic findings		
S3.01	Tumour type	See p3
S3.02	Histological grading	Low grade High grade

Microscopic findings (cont.)		
S3.03	Maximum degree of local invasion into or through the bowel wall	pT1 pT2 pT3 pT4
	If pT4, indicate if 'a' or 'b'	
S3.04	Involvement of the proximal or distal resection margins	Involved Not involved
	If involved, which margin?	Distal Proximal ___ mm
	If not involved, what is clearance (if less than 10 mm)	
S3.05	Minimum distance between tumour and the nonperitonealised circumferential margin (rectal tumours)	___ mm
S3.06	Minimum distance between tumour and the nonperitonealised circumferential margin (colon tumours)	___ mm
S3.07	Lymph nodes	
	Total number	___
	Number positive	___
	Isolated extra-mural tumour deposits	Absent Present
G3.01	Status of apical node	Text
S3.08	Venous and small vessel invasion	
	Intramural vein invasion	Not identified Suspicious Present
	Extramural vein invasion	Not identified Suspicious Present
	Small vessel invasion	Not identified Suspicious Present Present,extensive
G3.02	Perineural invasion	Not identified Present Present,extensive
S3.09	Distant metastases	Absent Present
	If present, indicate..	Site(s)
S3.10	Relevant coexistent pathological abnormalities	See p3
S3.11	Microscopic residual tumour status (completeness of resection)	Text
S3.12	Response to neoadjuvant therapy	Text
	Indicate grade (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	KRAS gene mutation (codons 12 and 13)	Mutated Wild type Not tested
	Laboratory performing test and report number	Text
	Comments	Text

Synthesis and overview

S5.01	Tumour stage	See p2
	Stage grouping	See p2
S5.02	Residual tumour status	See p2
G5.01	Diagnostic summary	Text
	Include:	
	a. specimen type (S1.01)	
	b. tumour site (S2.05)	
	c. tumour type (S3.01)	
	d. tumour stage (S5.01)	
	e. completeness of excision (S5.02)	
S5.03	Comments	Text

NOTES

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).

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 pericorectal 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
IIB	T4a	N0	M0
IIC	T4b	N0	M0
IIIA	T1-T2	N1/N1c	M0
	T1	N2a	M0
IIIB	T3-T4a	N1/N1c	M0
	T2-T3	N2a	M0
	T1-T2	N2b	M0
IIIC	T4a	N2a	M0
	T3-T4a	N2b	M0
	T4b	N1-N2	M0
IVA	Any T	Any N	M1a
IVB	Any T	Any N	M1b

**Used with the permission of the American Joint Committee on Cancer (AJCC), Chicago, Illinois. The original source for this material is the AJCC Cancer Staging Manual, Seventh Edition (2010) published by Springer Science and Business Media LLC, www.springerlink.com.

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NOTES (Cont.)

S1.04 Patient presentation at surgery

Nature of perforation:

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

S1.05 Tumour location

S2.05 Tumour site

- Caecum
- Ascending colon
- Hepatic flexure
- Transverse colon
- Splenic flexure
- Descending colon
- Sigmoid colon
- Rectosigmoid junction
- Rectum
- Not stated

S1.07 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)
- Not stated

S2.11 Intactness of mesorectum

Incomplete:

little bulk to the rectum, defects in the mesorectum down to the muscularis propria, after transverse sectioning the circumferential margin appears very irregular.

Nearly complete:

moderate bulk to the mesorectum, irregularity of the mesorectal surface with defects greater than 5 mm but none extending to the muscularis propria, no areas of visibility of the muscularis propria except at the insertion site of the levator ani muscles

Complete:

Intact bulky mesorectum with a smooth surface, only minor irregularities of the mesorectal surface, no surface defects greater than 5 mm in depth, no coning towards the distal margin of the specimen, after circumferential sectioning the circumferential margin appears smooth.

S3.01 Tumour type

- Adenocarcinoma
- Mucinous adenocarcinoma
- Signet-ring cell carcinoma
- Small cell carcinoma
- Squamous cell carcinoma
- Adenosquamous carcinoma
- Medullary carcinoma
- Undifferentiated carcinoma

S3.10 Relevant coexistent pathological abnormalities

- Polyps (describe type, number, etc)
- Ulcerative colitis (with dysplasia/without dysplasia)
- Crohn's disease (with dysplasia/without dysplasia)
- Other

S3.12 Response to neoadjuvant therapy

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.