**Appendix B Reporting proforma for appendiceal mucinous neoplasms and adenocarcinoma**

Surname: ………………………….. Forenames: ………………………. Date of birth: ………Sex: ………

Hospital: …………………………… Hospital No: ………………………. NHS No: ………………………....

Date of surgery: ……………….….. Date of report authorisation: …………… Report No: ………….........

Date of receipt: ………………….... Pathologist: ………………….…………... Clinician: ………….........

**Specimen type:**

Appendicectomy 

Right hemicolectomy 

Other 

If other, state: ……………………………………

Other organs: Yes  No 

If yes, list: ……………………..………………….

**Macroscopic:**

For all specimens:

Length of appendix: …...mm

Maximum external diameter of appendix: …… mm

Appearance of appendix: Normal 

Distended mucin-filled 

Diffuse thickening of wall 

Tumour nodule 

Other 

If other, state: ……………………………………

Maximum diameter of tumour: .…..mm or cannot be accurately measured 

Perforation: Yes  No 

If yes, is perforation through macroscopically visible tumour? Yes 

No 

Not applicable 

Mucin visible on serosa: Yes  No 

Any other pathological abnormalities (state): ……..………………..……..

For appendicectomies:

Caecal wall included: Yes  No 

Distance of tumour from proximal and mesoappendiceal margins:

If >30 mm, specify which margin(s) and macroscopic clearance

…………………………… (…….mm) [[1]](#footnote-1)\*

If <30 mm, specify which margin(s)[[2]](#footnote-2)† ……………………………….

For colectomies:

Length of specimen: ……….mm

Distance of tumour from longitudinal ends and non-peritonealised circumferential margin(s):

If >30 mm, specify which margin(s) and macroscopic clearance

…………………………… (…….mm)\*

If <30 mm, specify which margin(s)† ………………………….

**Type of tumour:**

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 

If other, specify: ………………………..……….…………

**Grade:**

For mucinous tumours (Table 1):

G1: LAMN 

G2: HAMN and most mucinous adenocarcinomas without signet ring cells 

G3: mucinous adenocarcinomas with signet ring cells[[3]](#footnote-3)† (or, rarely, sheets of poorly differentiated cells) 

For non-mucinous adenocarcinomas:

Low grade (G1/2) 

High grade (G3) 

For goblet cell adenocarcinomas (Table 2):

G1 (>75% low-grade pattern) 

G2 (50–75% low-grade pattern) 

G3 (<50% low-grade pattern) 

**Other findings:**

Perforation at the site of tumour: Yes  No 

Perforation away from tumour: Yes  No 

Any other findings (specify): ………………………………….………….

**Local spread:**

Furthest extent of tumour (either neoplastic cells or acellular mucin):

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 

Neoplastic epithelial cells involve or lie beyond serosa: Yes  No 

**Angiolymphatic and perineural invasion (adenocarcinomas and GCAs only):**

Venous invasion: Yes  No 

Lymphatic invasion: Yes  No 

Perineural invasion: Yes  No 

**Margins – appendicectomies:**

Proximal appendiceal margin:

Clear (distance ……mm or cannot be accurately measured) 

Mucosal neoplasm present at margin 

Mural/extra-appendiceal epithelium or mucin present at margin 

Not assessable 

Mesoappendiceal margin:

Clear (distance ……mm or cannot be accurately measured) 

Neoplastic epithelium or mucin present at margin 

Not assessable 

Other margin (describe): …………………………..…………………..…………………………….

**Margins – right hemicolectomies:**

Longitudinal margins:

Not submitted by pathologist 

Clear (distance ……mm or cannot be accurately measured) 

Mucosal neoplasm present at margin 

Mural/extra-appendiceal epithelium or mucin present at margin 

Not assessable 

Non-peritonealised circumferential margin:

Not submitted by pathologist 

Clear (distance ……mm or cannot be accurately measured) 

Neoplastic epithelium or mucin present at margin 

Not assessable 

Other margin (describe): ……………………………………………………………………………..

**Lymph nodes:**

Number of regional nodes (mesoappendiceal and ileocolic): ……

Number of non-regional nodes: ……

Total number of nodes: ……

Number of regional nodes containing tumour: ……

Number of non-regional nodes containing tumour: …… or not applicable if no non-regional nodes

Total number of nodes containing tumour: …… or not applicable if no nodes present

**Tumour deposits (satellites):**  Yes  No  Not applicable 

If yes, number (1, 2, 3, 4, 5 or >5) ………….

**Peritoneal metastases (includes involvement of ovaries):** Yes  No 

If yes:

State organs involved: ………………………………………….

Is peritoneal disease pseudomyxoma peritonei? Yes  No 

If yes, classification of pseudomyxoma peritonei is:

Acellular mucin 

Low-grade mucinous carcinoma peritonei (G1) 

High-grade mucinous carcinoma peritonei (G2)[[4]](#footnote-4)¶ 

High-grade mucinous carcinoma peritonei with signet ring cells (G3)[[5]](#footnote-5)‡ 

**Histologically confirmed distant metastases, i.e. metastases not derived from peritoneal spread :** Yes  No 

If yes, site(s): ……………………….…………….

**Other abnormalities:** Yes  No 

If yes, specify: ……………………….…………….

**Additional tumours present:** Yes  No 

If yes, specify and use separate proforma: ……………………….…………….

**Overall grade** **(higher of local and peritoneal disease if discordant in pseudomyxoma peritonei):**

G1 

G2 

G3 

Cannot be assessed or not applicable 

**Complete resection at all surgical margins (R0)**: Yes  No 

**pTNM classification:**  pT …… pN …… pM\* ……

\*pM should either be pM1 or entered as not applicable (N/A)

**TNM edition number used:** ……

**Comments:** ……………………………………………………………..

**SNOMED codes:** ……………………………………………….

1. If a margin is macroscopically >30 mm from tumour, it is sufficient simply to provide this measurement. [↑](#footnote-ref-1)
2. †If a margin is macroscopically <30 mm from tumour, take block(s) to allow microscopic measurement of distance. [↑](#footnote-ref-2)
3. ‡Signet ring cells should be reported if they comprise at least 10% of the neoplastic cells. [↑](#footnote-ref-3)
4. ¶ Rarely, high grade mucinous carcinoma peritonei can be G3 if there are sheets of poorly differentiated cells without signet ring morphology. [↑](#footnote-ref-4)
5. ‡ Signet ring cells should be reported if they comprise at least 10% of the neoplastic cells. [↑](#footnote-ref-5)