**Appendix E Histopathology reporting proforma for phaeochromocytoma and paraganglioma**

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

Hospital………….……….……Hospital no……………….…....NHS/CHI no……………..

Date of receipt………….…….Date of reporting………..….....Report no……………......

Pathologist……….…………...Surgeon………………….…….

**Clinical information**

…………………………………………………………………………………………………………

**Operative procedure**

Not specified Biopsy (core needle, incisional, excisional), specify ……………..

Open resection, specify procedure, including other organs if present (e.g. adrenal resection and liver biopsy) …………………..

Laparoscopic Organ-sparing Other (e.g. conversion, laparoscopic to open), specify …………………..

**Macroscopic findings**

Specimen submitted:

Adrenal gland ( Left Right) Biopsy tissue, specify site(s) and laterality ………………

Lymph nodes, specify biopsy/dissection, site(s) and laterality …………………………………………..

Other, specify site(s) and laterality ……………..

**Tumour focality**

Unifocal Indeterminate Cannot be assessed, specify*……………………….*

Multiple

Multifocal (separate tumours in the same organ), specify number of tumours

Multiple tumours in separate organs, specify number of tumours

Tumour site, specify site and laterality …………………………………………………………………….

Specimen integrity Specimen intact Fragmented specimen Cannot be assessed, specify

Maximum tumour dimension (largest tumour) ………mm Cannot be assessed

**Microscopic findings**

Histological tumour type:

Phaeochromocytoma  Extra-adrenal paraganglioma Composite phaeochromocytoma

Composite paraganglioma Other, specify ………………………………………………….  
  
If composite tumour, histologic second component is:

Neuroblastoma Ganglioneuroblastoma Ganglioneuroma Malignant peripheral nerve sheath tumour  
  
Medullary hyperplasia: Present Absent Cannot be assessed  
  
Mitotic count ……. / 2mm2  
  
Ki-67 …………%  Cannot be assessed

**Lymphovascular invasion**

Not identified Present [ Adrenal vein Vena cava Other, specify ……….………….]

**Extent of invasion**

Cannot be assessed Microscopic transcapsular penetration of tumour capsule within an organ

Microscopic transcapsular penetration of organ capsule Invasion into peritumoural soft tissue

Invasion into adjacent structure(s)/organ(s), specify ……………….

**Margin status**

 Not involved (R0)  Involved (R1, microscopic)  Involved (R2, macroscopic)

 Location of involved margin(s), specify if possible ……….  Cannot be assessed, specify

Number of lymph nodes examined ………………… Number of involved lymph nodes …………..  
  
Histologically confirmed distant metastasis (specify site) ……………………..

**Pathological staging (UICC *TNM 8th edition*)**

 m – multiple primary tumours  r – recurrent  y – post-therapy  
  
Primary tumour (pT)\*

* TX Primary tumour cannot be assessed
* T1 Phaeochromocytoma <5 cm in greatest dimension, no extra-adrenal extension
* T2 Phaeochromocytoma ≥5 cm or paraganglioma – sympathetic of any size, no extra-adrenal invasion
* T3 Tumour of any size with invasion into surrounding tissues (e.g. liver, pancreas, spleen, kidneys)

*\**Phaeochromocytoma: within adrenal gland; paraganglioma sympathetic: functional; paraganglioma parasympathetic: often non-functional, and located in the head and neck.

**Note:** Parasympathetic paragangliomas are not staged.  
  
Regional lymph nodes (pN)

* NX Regional lymph nodes cannot be assessed
* N0 No regional lymph node metastasis
* N1 Regional lymph node metastasis

**SNOMED topography code**

* May have multiple codes; look up from SNOMED tables

**SNOMED morphology code**

* May have multiple codes; look up from SNOMED tables

Signature ………………......... Date………………..…. SNOMED code …………….