**Appendix C Reporting proforma for carcinomas of the parathyroid**

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

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

Date of surgery………………. Date of receipt………….….…. Date of reporting………..…....

Report no…………….............. Pathologist……….…………....Surgeon………………….…….

**Clinical information provided (select all that apply)**

Information not provided □

Hyperparathyroidism: primary □ secondary □ tertiary □

Previous parathyroid surgery, specify □ ……….………..

Relevant familial history, specify □ …………….…..

Presence of a clinical syndrome, specify □ …….…………..

Other, specify (e.g. imaging, pre-operative FNA) □…………….…...

**Operative procedure (select all that apply)**

Not specified □

Parathyroidectomy, single gland □

Parathyroidectomy, en bloc with thyroid lobe □

Other parathyroid gland sampling □

Unilateral □

Bilateral □

Lymph node sampling, specify □……….………..

Soft tissue of neck, specify □………….……..

Other, specify □……….………..

**Specimen(s) submitted (select all that apply)**

Not specified □

Parathyroid □

Left: superior □ inferior □ not specified □

Right: superior □ inferior □ not specified □

 Other, specify □ …………….…..

Thyroid gland: Left □ Right □ Isthmus □

Lymph nodes, specify site(s) and laterality □ …………….…..

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

**Tumour site (select all that apply)**

Not specified □

Parathyroid

Left: superior □ inferior □ not specified □

Right: superior □ inferior □ not specified □

Mediastinal □

Intrathyroidal, specify lobe □…………………

Soft tissue or muscle, specify site(s) and laterality □ …………….…..

Lymph nodes, specify site(s) and laterality □ …………….…..

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

**Specimen weight**

Parathyroid alone ……mg

Parathyroid with other structure(s), ……mg,specify structure(s) …………………

Cannot be assessed, specify □ ………………..

**Tumour dimensions**

Maximum tumour dimension (largest tumour) ……mm

Cannot be assessed, specify □…………………

**Histological tumour type**

Atypical parathyroid tumour □

Parathyroid carcinoma □

**Histological tumour grade**

Low grade □

High grade □

Not determined □

Not applicable (i.e. atypical neoplasm tumour) □

**Extent of invasion (select all that apply)**

Cannot be assessed □

Confined to parathyroid without invasion through tumour capsule □

Invasion through tumour capsule □

Invasion into extra-parathyroidal soft tissue □

Invasion into adjacent structures, specify □

Recurrent laryngeal nerve □

Thyroid gland □

Oesophagus □

Skeletal muscle □

Other, specify □ …………………

**Lymphovascular invasion**

Not identified □

Present □

**Perineural invasion**

Not identified □

Present □

**Necrosis**

Not identified □

Present □

**Mitotic count**

…… per 2 mm2

Cannot be assessed □

**Margin status**

Not involved (R0) □

Abutting tissue edge (R1 resection) □

Transected, fragmented or ruptured (possible R2 resection) □

Specify if named structure/location is involved at margin(s) …………………

Cannot be assessed, specify □ …………………

**Lymph node status**

Number of lymph nodes examined ……

 Number of positive lymph nodes ……

 Number cannot be determined □

**Histologically confirmed distant metastases**

Not identified □

Not assessed □

Present, specify site(s) □ …………………

**Pathological staging (AJCC TNM 8th edition)c**

TNM Descriptors (only if applicable) (select all that apply)

m multiple primary tumours □

r recurrent □

y post-therapy □

Primary tumour (pT)

TX Primary tumour cannot be assessed □

Tis Atypical parathyroid neoplasm (neoplasm of UMP)a □

T1 Localised to the parathyroid gland with extension limited to soft tissue □

T2 Direct invasion into the thyroid gland □

T3 Direct invasion into recurrent laryngeal nerve, oesophagus, trachea, skeletal muscle, adjacent lymph nodes, or thymus □

T4 Direct invasion into major blood vessel or spine □

Regional lymph nodes (pN)

NX Regional lymph nodes cannot be assessed □

N0 No regional lymph node metastasis □

N1 Regional lymph node metastasis □

N1a Metastasis to level VI (pretracheal, paratracheal and prelaryngeal/Delphian lymph nodes) or superior mediastinal lymph nodes (level VII) □

N1b Metastasis to unilateral, bilateral or contralateral cervical (level I, II, III, IV or V) or retropharyngeal nodes □