# Carcinoma of the Thyroid

## Histopathology Reporting Guide

**Family/Last name**

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**Given name(s)**

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**Date of birth**

DD – MM – YYYY

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**Patient identifiers**

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**Date of request**

DD – MM – YYYY

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**Accession/Laboratory number**

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**Elements in black text are CORE. Elements in grey text are NON-CORE.**

☐ indicates multi-select values  ○ indicates single select values

### CLINICAL INFORMATION (select all that apply)

- Information not provided
- Previous history of thyroid tumour or related abnormality, specify
- Relevant biopsy/cytology results, specify
- Imaging findings, specify
- Previous surgery/therapy, specify
- Relevant familial history, specify
- Presence of clinical syndrome, specify
- Other, specify

### OPERATIVE PROCEDURE (select all that apply)

- Not specified
- Total thyroidectomy
- Near total thyroidectomy
- Hemithyroidectomy
- Lobectomy
- Isthmusection
- Partial excision, specify type if possible
- Lymph node dissection
- Other, specify

*a Anything less than a lobectomy excluding isthmusection, including substernal excision.*

### OPERATIVE FINDINGS

- Not specified
- Intra-operative macroscopic evidence of extrathyroidal extension
  - Yes, specify location and tissue invaded
  - No
  - Information not available

- Intra-operative impression of completeness of excision
  - R0/R1
  - R2, specify location
  - Information not available

- Other, specify

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### Specimen(s) Submitted

- [ ] Not specified
- □ Thyroid gland
  - □ Left
  - □ Right
  - □ Isthmus
- □ Parathyroid gland(s)
- □ Lymph node(s), specify site(s) and laterality
- □ Other, specify site(s) and laterality

### Tumour Focality

(For the most clinically relevant tumour)

- □ Unifocal
- □ Multifocal, specify number of tumours in specimen (if >5 state such but no need to specify the number)
- □ Cannot be assessed, specify

### Tumour Site

(For the most clinically relevant tumour)

- □ Not specified
- □ Lobe
  - □ Left
  - □ Right
- □ Isthmus
- □ Pyramidal lobe
- □ Soft tissue or muscle, specify site(s) and laterality
- □ Other, specify site(s) and laterality

### Tumour Dimensions

- Maximum tumour dimension (largest tumour)
  - mm
- Additional dimensions (largest tumour)
  - mm x mm
- □ Cannot be assessed, specify

### Mitotic Activity

- □ Not identified/low (<3 mitoses/2 mm²)
- □ High (≥3 mitoses/2 mm²)

Number of mitoses per 2 mm²

- □ Cannot be assessed

*2 mm² approximates 10 HPFs on some microscopes.*

### Histological Tumour Type

(Select all that apply)

- □ Follicular thyroid carcinoma
  - □ FTC, minimally invasive
  - □ FTC, encapsulated angioinvasive
  - □ FTC, widely invasive
- □ Hürthle (oncocytic) cell tumours
  - □ Hürthle cell carcinoma, minimally invasive
  - □ Hürthle cell carcinoma, encapsulated angioinvasive
  - □ Hürthle cell carcinoma, widely invasive
- □ Poorly differentiated thyroid carcinoma
- □ Anaplastic thyroid carcinoma
- □ Squamous cell carcinoma
- □ Medullary thyroid carcinoma
- □ Mixed medullary and follicular thyroid carcinoma
- □ Mucoepidermoid carcinoma
- □ Sclerosing mucoepidermoid carcinoma with eosinophilia
- □ Mucinous carcinoma
- □ Spindle epithelial tumour with thymus-like differentiation
- □ Intrathyroid thymic carcinoma
- □ Other, specify

### Histological Tumour Grade

- □ Well-differentiated
- □ Poorly differentiated
- □ Undifferentiated/anaplastic
TUMOUR ENCAPSULATION/CIRCUMSCRIPTION
- Encapsulated
- Infiltrative
- Other, specify

CAPSULAR INVASION
- Not applicable
- Uncertain
- Not identified
- Present
- Cannot be assessed, specify

LYMPHOVASCULAR INVASION
- Not identified
- Present, for encapsulated neoplasms, specify
  - Focal, <4 foci
  - Extensive, ≥4 foci

Extrathyroidal lymphovascular invasion
- Not identified
- Present
- Cannot be assessed, specify

NECROSIS
- Not identified
- Present

EXTRATHYROIDAL EXTENSION (select all that apply)
- Cannot be assessed
- Not identified
- Invasion into perithyroid fibroadipose tissue
- Invasion into skeletal muscle
- Invasion into subcutaneous soft tissue, larynx, trachea, oesophagus or recurrent laryngeal nerve
- Invasion into prevertebral fascia or encasing the carotid artery or mediastinal vessel

MARGIN STATUS
- Not involved
- Distance of tumour to closest margin mm
- Involved, specify (anterior or posterior)
- Cannot be assessed, specify

LYMPH NODE STATUS
- No nodes submitted or found
- Number of lymph nodes examined
- Not involved
- Involved
- Number of positive lymph nodes
- Number cannot be determined
- Location of involved lymph nodes, specify
- Greatest dimension of largest lymph node with metastasis mm
- Greatest dimension of largest metastatic focus in lymph node mm

C-CELL HYPERPLASIA (Medullary carcinoma only)
- Not identified
- Present

COEXISTENT PATHOLOGY (select all that apply)
- None identified
- Nodular hyperplasia
- Diffuse hyperplasia
- Dyshormonogenetic goitre
- Chronic lymphocytic thyroiditis
- Follicular adenoma
- Hürthle cell adenoma
- Noninvasive follicular thyroid neoplasm with papillary-like nuclear features (NIFTP)
- Other, specify

PARATHYROID GLAND STATUS
- Not identified
- Present
- Number of parathyroid gland(s) found
  - Normal
  - Involved by carcinoma
  - Hypercellular/enlarged
  - Cannot be assessed, specify
PATHOLOGICAL STAGING (UICC TNM 8th edition)

**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
- T1 Tumour 2 cm or less in greatest dimension, limited to the thyroid
  - T1a Tumour 1 cm or less in greatest dimension, limited to the thyroid
  - T1b Tumour more than 1 cm but not more than 2 cm in greatest dimension, limited to the thyroid
- T2 Tumour more than 2 cm but not more than 4 cm in greatest dimension, limited to the thyroid
- T3 Tumour more than 4 cm in greatest dimension, limited to the thyroid or with gross extrathyroidal extension invading only strap muscles (sternohyoid, sternothyroid, or omohyoid muscles)
  - T3a Tumour more than 4 cm in greatest dimension, limited to the thyroid
  - T3b Tumour of any size with gross extrathyroidal extension invading strap muscles (sternohyoid, sternothyroid, or omohyoid muscles)
- T4 Includes gross extrathyroidal extension into major neck structures
  - T4a Tumour extends beyond the thyroid capsule and invades any of the following: subcutaneous soft tissues, larynx, trachea, oesophagus, recurrent laryngeal nerve
  - T4b Tumour invades prevertebral fascia, mediastinal vessels, or encases carotid artery

**Regional lymph nodes (pN)**
- NX Regional lymph nodes cannot be assessed
- N0 No regional lymph node metastasis
- N1 Regional lymph node metastasis
  - N1a Metastasis in level VI (pretracheal, paratracheal, and prelaryngeal/Delphian lymph nodes) or upper/superior mediastinum
  - N1b Metastasis in other unilateral, bilateral or contralateral cervical (levels I, II, III, IV or V) or retropharyngeal

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**ANCILLARY STUDIES**

- Not performed
- Performed, specify

**HISTOLOGICALLY CONFIRMED DISTANT METASTASES**

- Not identified
- Not assessed
- Present, specify site(s)

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