

A guide to Thyroid Cancer Histopathology Reporting

Includes the  International Collaboration on Cancer reporting dataset denoted by *



Clinical details		Microscopic findings cont.	
S1.02	Clinical info. on request form (complete as narrative or use the structured format below)	Text OR Information not provided*	S3.03 * Mitotic activity **Note: 2 mm ² approximates 10 high power fields on some microscopes.
	* Previous history of thyroid tumour or related abnormality	Text	Not identified/ low (<3 mitoses/2 mm ²) High (≥3 mitoses/2 mm ²) Can't be assessed, <i>specify</i> ___ mitotic figures/2 mm ² **
	* Relevant biopsy/ cytology results	Text	G3.01 * Histological grade
	* Imaging findings	Text	Well differentiated Poorly differentiated Undifferentiated/ anaplastic
	* Previous surgery/ therapy	Text	S3.04 * Tumour encapsulation/ circumscription
	* Relevant family history	Text	Encapsulated Infiltrative Other, <i>specify</i>
	* Presence of clinical syndrome	Text	S3.05 * Capsular invasion
G1.01	Copy to doctor	Text	Not applicable Uncertain Not identified Present Can't be assess'd, <i>specify</i>
S1.03	Pathology accession number	Text	S3.06 * Lymphovascular invasion
S1.04	Principal clinician	Text	Can't be assess'd, <i>specify</i> Not identified Present
G1.02	Other clinical information received	Text	* Vascular invasion
Macroscopic findings			See p2
S2.01	Specimen labelled as	Text	S3.07 * Necrosis
S2.02	* Clinical information	Text	Not identified Present
S2.03	* Operative procedure <i>Type of partial excision</i>	See p2 Text	S3.08 * Extrathyroidal extension
S2.04	* Operative findings	See p2	See p3
S2.05	* Specimen(s) submitted	See p2	S3.09 * Margin status
G2.01	Specimen weight	___ g	Not involved Involved, <i>specify</i> (anterior or posterior) Can't be assess'd, <i>specify</i>
S2.06	* Tumour focality	Can't be assess'd, <i>specify</i> Unifocal Multiple	<i>Distance to closest margin</i> ___ mm <i>Margin (anterior or posterior)</i> Text
	* Number of tumours in specimen	___	S3.10 * Lymph node status
S2.07	* Tumour site	See p2	No nodes submitted or found Not involved Involved
S2.08	Macroscopic description	Text	* No. of lymph nodes examined
G2.02	Thyroid appearance	Text	Number can't be determined OR ___
S2.09	Block identification key	Text	* No. of positive lymph nodes
G2.03	Other macro. comment	Text	___
Microscopic findings			* Location of involved lymph nodes
S3.01	* Histological tumour type	See p2	Text
S3.02	* Microscopic tumour dimension Max. tumour dimension (largest tumour) Additional dimensions (largest tumour)	Can't be assess'd, <i>specify</i> OR ___ mm OR ___ mm x ___ mm	* Greatest dimension of largest lymph node with metastasis
			___ mm
			* Greatest dimension of largest metastatic focus in lymph node
			___ mm
			* Extranodal extension (ENE)
			Not identified Present Can't be determined
			G3.02 * C-cell hyperplasia
			Not identified Present Unilateral Bilateral

Microscopic findings cont.

S3.11	*Parathyroid gland status	Not identified Present (normal, involved by carcinoma, hypercellular/enlarged)
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***No. of parathyroid gland(s)** —

S3.12	*Distant metastases	Not identified Not assessed Present, <i>specify site(s)</i>
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S3.13	Coexistent abnormalities	See p3
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G3.03	Additional microscopic comment	Text
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Ancillary findings

G4.01	*Ancillary studies	Not performed Performed, <i>specify</i>
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Results Text

G4.02	Molecular studies	Text
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Synthesis and overview

S5.01	*PATHOLOGICAL STAGING	See p3
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S5.02	Year and edition of staging system	Text
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G5.01	Diagnostic summary	Text
Include: Operative procedure; Tumour site; Histological tumour type; Tumour stage; Margin status.		

S5.03	Overarching comment	Text
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G5.02	Edition/version of RCPA protocol	Text
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S2.03 Operative procedure

Not specified*

OR (*Select all that apply*)

- Total thyroidectomy
- Near total thyroidectomy
- Hemithyroidectomy
- Lobectomy
- Isthmusectomy
- Partial excision*
- Lymph node dissection
- Other, *specify*

*Note: Anything less than a lobectomy excluding isthmusectomy, including substernal excision.

S2.04 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*
 - Neuroblastoma, *specify*
 - Ganglioneuroma, *specify*
 - Malignant peripheral nerve sheath tumour, *specify*
- Other, *specify*

S2.05 Specimen(s) submitted

Not specified*

OR (*Select all that apply*)

- Thyroid gland
 - Left
 - Right
 - Isthmus
- Parathyroid gland(s)
- Lymph node(s), *specify site(s) and laterality*
- Other, *specify site(s) and laterality*

S2.07 Tumour site

Not specified*

OR (*Select all that apply*)

- Lobe
 - Left
 - Right
- Isthmus
- Pyramidal lobe
- Soft tissue or muscle, *specify site(s) and laterality*
- Other, *specify site(s) and laterality*

S3.01 Histological tumour type

- Papillary thyroid carcinoma
 - Classic (usual, conventional)
 - Cribriform-morular variant
 - Diffuse sclerosing variant
 - Encapsulated variant
 - Encapsulated/well-demarcated follicular variant with invasion
 - Infiltrative follicular variant
 - Hobnail variant
 - Microcarcinoma
 - Oncocytic variant
 - Solid variant
 - Tall cell variant
 - Warthin-like variant
 - Other variant, *specify*
- Follicular thyroid carcinoma (FTC)
 - 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*

S3.06 Vascular invasion

- Not identified
- Present, for encapsulated neoplasms
 - Focal, <4 foci
 - Extensive, ≥4 foci
- Extrathyroidal blood vessel invasion
 - Not identified
 - Present
- Small vessel, not otherwise classifiable
- Cannot be assessed, *specify*

S3.08 Extrathyroidal extension

- Cannot be assessed
- Not identified

OR

(Select all that apply)

- 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

S3.13 Coexistent pathological abnormalities

None identified

OR (Select all that apply)

- Nodular hyperplasia
- Diffuse hyperplasia
- Dysmorphogenetic goitre
- Chronic lymphocytic thyroiditis
- Follicular adenoma
- Hurthle cell adenoma
- Non-invasive follicular thyroid neoplasm with papillary-like nuclear features (NIFTP)
- Other, specify

S5.01 Stage & stage group##

Suffixes

m - multiple primary tumours; y - post therapy; r - recurrent

Primary Tumour (pT)

- TX Primary tumour cannot be assessed
- T0 No evidence of primary tumour
- T1 Tumour ≤ 2 cm in greatest dimension limited to the thyroid
- T1a Tumour ≤ 1 cm in greatest dimension limited to the thyroid
- T1b Tumour > 1 cm but < 2 cm in greatest dimension limited to the thyroid
- T2 Tumour > 2 cm but ≤ 4 cm in greatest dimension limited to the thyroid
- T3 Tumour > 4 cm limited to the thyroid, or gross extrathyroidal extension invading only strap muscles
- T3a Tumour > 4 cm limited to the thyroid
- T3b Gross extrathyroidal extension invading only strap muscles (sternohyoid, sternothyroid, thyrohyoid, or omohyoid muscles) from a tumour of any size
- T4 Includes gross extrathyroidal extension beyond the strap muscles
- T4a Gross extrathyroidal extension invading subcutaneous soft tissues, larynx, trachea, oesophagus, recurrent laryngeal nerve from a tumour of any size
- T4b Gross extrathyroidal extension invading prevertebral fascia or encasing the carotid artery or mediastinal vessels from a tumour of any size

Regional lymph node (pN)

- NX Regional lymph nodes cannot be assessed
- N0 No evidence of locoregional lymph node metastasis
- N0a One or more cytologically or histologically confirmed benign lymph nodes
- N0b No radiologic or clinical evidence of locoregional lymph node metastasis
- N1 Metastasis to regional nodes
- N1a Metastasis to level VI or VII (pretracheal, paratracheal, or prelaryngeal/Delphian, or upper mediastinal) lymph nodes. This can be unilateral or bilateral disease.
- N1b Metastasis to unilateral, bilateral or contralateral lateral neck lymph nodes (levels I, II, III, IV or V) or retropharyngeal lymph nodes

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