

A guide to Thyroid Cancer Histopathology Reporting



Clinical details	
S1.02	Pathology accession number Text
S1.03	Principal clinician Text
S1.04	Operating surgeon Name Contact info.
S1.05	Type of operation See p2
	Neck dissection No Yes
	If yes, provide details:
	Side Right Left
	Compartment Central Lateral
	Levels Text
	Additional procedures Text
S1.06	Details of any previous thyroid operation Text Not stated
S1.07	Anatomical site(s) Text Not stated
	Other specimens received No Yes
	If yes, specify details Text
S1.08	Laterality of the lesion Left Right Isthmus Not stated
G1.02	Any relevant clinical information eg Text <ul style="list-style-type: none"> Thyroid function status Relevant medical treatments (eg anti-thyroid drug, radioactive iodine) Previous exposure of neck to radiotherapy Indication for performing surgery Family history (eg thyroid cancer, endocrine tumours or syndromes) Other (specify)
G1.03	Pre-operative fine needle aspiration No Yes If yes, specify details Text
G1.04	Clinical staging Text
G1.05	Involvement of adjacent organs or distant metastases No Yes If yes, specify details Text
G1.06	Clinical or differential diagnosis Text
Macroscopic findings	
G2.04	Weight of specimen ___g
S2.10	Specimen dimensions:
	Right lobe ___x___x___mm
	Left lobe ___x___x___mm
	Isthmus ___x___x___mm
G2.05	Thyroid capsule Intact Not intact

Macroscopic findings (cont.)	
S2.11	Macroscopic description of lesion(s)
	Multiple lesions? No Yes If yes, indicate number and complete the following items for each tumour Nbr of tumours
FOR EACH TUMOUR RECORD....	
	Location Text
	Appearance Text
	Borders Encapsulated Infiltrative
	Size in greatest dimension ___mm
	Distance from nearest excision margin ___mm
G2.06	Appearance of other portion of thyroid Text
G2.07	Parathyroid Absent Present
	Lymph nodes Absent Present If present, indicate type Text
G2.08	Other macroscopic comment Text
Microscopic findings	
S3.01	Tumour type See p2
	If follicular carcinoma, record level of invasion widely invasive minimally inv.
	If minimally invasive, record:
	Vascular invasion Absent Present
	Nbr of foci of capsular and/or vascular invasion (if known) ___
G3.01	Tumour variant Text
S3.02	Multifocal lesions Absent Present
S3.03	Diameter of tumour (for multifocal tumours measure the largest) ___mm
S3.04	Extension into adjacent tissues/organs Absent Present If present, into which tissue See p2
S3.05	Cancer at resection margin Absent Present If absent, what is clearance from resection margin ___mm If present, state margin Text
S3.06	Lymph node status. For each location, specify:
	Nbr of nodes resected ___
	Nbr of positive nodes ___

Microscopic findings (cont.)

S3.07	Parathyroid tissue	Absent Present
	If present, state where	Text
G3.02	Co-existing pathology	See p2
G3.03	Other microscopic comment	Text

Ancillary test findings

S4.01	For Immunohistochemical stains, record	Each antibody Result Interpretation Clin. significance
G4.01	Molecular investigations	Performing lab Result Conclusion Person reporting

Synthesis and overview

S5.01	Tumour stage & stage grouping (AJCC)	See p2
S5.02	Year of publication & edition of cancer staging system	Text
G5.01	Diagnostic summary. Include: a. Operation type (S1.05) b. Tumour site & laterality (S1.07 and S1.08) c. Tumour type (S3.01) d. Tumour stage (S5.01) e. Completeness of excision (S3.05).	Text
S5.03	Other relevant comments	Text

NOTES

S1.05 Type of operation

- total thyroidectomy
- near-total thyroidectomy
- subtotal thyroidectomy
- lobectomy with isthmusectomy (hemi-thyroidectomy)
- lobectomy
- partial lobectomy
- completion thyroidectomy

S3.04 Extension to adjacent tissues

- Sternohyoid muscle
- Perithyroid soft tissue
- Subcutaneous soft tissues
- Larynx
- Trachea
- Oesophagus
- Recurrent laryngeal nerve
- Other (specify)

G3.02 Co-existing pathology

- Hashimoto's thyroiditis
- Lymphocytic thyroiditis
- Diffuse parenchymatous goitre
- Nodular hyperplasia
- Other (specify)

S3.01 Tumour type

- Papillary carcinoma
- Follicular carcinoma
- Medullary carcinoma
- Others (please state)

S5.01 Tumour stage (AJCC)#

Primary Tumour (T)

Note: All categories may be subdivided: (s) solitary tumour and (m) multifocal tumour (the largest determines the classification).

- TX Primary tumour cannot be assessed
- T0 No evidence of primary tumour
- T1 Tumour 2cm or less in greatest dimension limited to the thyroid.
- T1a Tumour 1cm or less, limited to the thyroid.
- T1b Tumour more than 1cm but not more than 2cm in greatest dimension limited to the thyroid.
- T2 Tumour more than 2cm but not more than 4cm in greatest dimension limited to the thyroid.

S5.01 Tumour stage (AJCC) cont.

T3 Tumour more than 4cm in greatest dimension limited to the thyroid or any tumour with minimal extrathyroid extension (eg extension to sternothyroid muscle or perithyroid soft tissues).

T4a Moderately advanced disease. Tumour of any size extending beyond the thyroid capsule to invade subcutaneous soft tissues, larynx, trachea, oesophagus or recurrent laryngeal nerve.

T4b Very advanced disease. Tumour invades prevertebral fascia or encases carotid artery or mediastinal vessels. All anaplastic carcinomas are considered T4 tumours

T4a Intrathyroidal anaplastic carcinoma

T4b Anaplastic carcinoma with gross extrathyroid extension

Regional Lymph Nodes (N) - Regional lymph nodes are the central compartment, lateral cervical, and upper mediastinal lymph nodes.

NX Regional lymph nodes cannot be assessed

N0 No regional lymph node metastasis

N1 Regional lymph nodes metastasis

N1a Metastasis to Level VI (Pretracheal, paratracheal, and prelaryngeal/Delphian lymph nodes)

N1b Metastasis to unilateral, bilateral, or contralateral cervical (Levels I, II, III, IV, or V) or retropharyngeal or superior mediastinal lymph nodes (Level VII)

Distant Metastasis (M)

M0 No distant metastasis

M1 Distant metastasis

Stage Grouping

Papillary or follicular (differentiated)

UNDER 45 YEARS

Stage	T	N	M
Stage I	Any T	Any N	M0
Stage II	Any T	Any N	M1

45 YEARS AND OLDER

Stage I	T1	N0	M0
Stage II	T2	N0	M0
Stage III	T3	N0	M0

	T1	N1a	M0
	T2	N1a	M0
	T3	N1a	M0

Stage IVA	T4a	N0	M0
	T4a	N1a	M0

	T1	N1b	M0
	T2	N1b	M0

	T3	N1b	M0
	T4a	N1b	M0

Stage IVB	T4b	Any N	M0
-----------	-----	-------	----

Stage IVC	Any T	Any N	M1
-----------	-------	-------	----

Medullary carcinoma (all age groups)

Stage I	T1	N0	M0
Stage II	T2	N0	M0

	T3	N0	M0
Stage III	T1	N1a	M0

	T2	N1a	M0
	T3	N1a	M0

Stage IVA	T4a	N0	M0
	T4a	N1a	M0

	T1	N1b	M0
	T2	N1b	M0

	T3	N1b	M0
	T4a	N1b	M0

Stage IVB	T4b	Any N	M0
-----------	-----	-------	----

Stage IVC	Any T	Any N	M1
-----------	-------	-------	----

Anaplastic carcinoma (all considered Stage IV)

Stage IVA	T4a	Any N	M0
-----------	-----	-------	----

Stage IVB	T4b	Any N	M0
-----------	-----	-------	----

Stage IVC	Any T	Any N	M1
-----------	-------	-------	----

Used with the permission of the American Joint Committee on Cancer (AJCC), Chicago, Illinois. The original source for this material is the AJCC Cancer Staging Manual, Seventh Edition (2010) published by Springer Science and Business Media LLC, www.springerlink.com.