Thymic Epithelial Tumours
Histopathology Reporting Guide

Family/Last name

Given name(s)

Patient identifiers

Date of request

Accession/Laboratory number

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

**CLINICAL INFORMATION**

- Not provided
- Myasthenia gravis
- Pure red cell aplasia
- Rheumatoid arthritis
- Hypogammaglobulinemia (Good’s syndrome)
- Previous neoplasm, specify
- Preoperative therapy, specify
- Other disorders, specify

**OPERATIVE PROCEDURE**

- Partial thymectomy
- Total thymectomy
- Other, specify

**SPECIMEN(S) SUBMITTED** (select all that apply)

- Partial thymus
- Complete thymus
- Thymus plus surrounding tissue (radical thymectomy)
- Mediastinal pleura
- Pericardium
- Lung
- Phrenic nerve
- Great vessels
- Myocardium
- Diaphragm
- Separate extrathymic tumour nodules
- Lymph nodes

**MACROSCOPIC SITE OF PRIMARY TUMOUR**

- Thymic
- Single tumour
- >1 tumour
- Ectopic, specify site(s)

**SPECIMEN INTEGRITY**

- Intact specimen
- Surface disrupted
- Fragmented specimen

**MAXIMUM DIMENSION OF PRIMARY TUMOUR**

- mm

**HISTOLOGICAL TUMOUR TYPE**

(Use the 2015 WHO classification. Where relevant, if more than one subtype, list in 10% increments)

**Thymoma**

- Present
- Not identified

Thymoma:

- Predominant subtype
- Other subtypes

**Thymic carcinoma**

- Present
- Not identified

Thymic carcinoma:

- Predominant subtype
- Other subtypes
### Thymic neuroendocrine tumours

- **Present**
- **Not identified**

<table>
<thead>
<tr>
<th>Tumour Type</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical carcinoid tumour</td>
<td></td>
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<tr>
<td>Atypical carcinoid tumour</td>
<td></td>
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<tr>
<td>Large cell neuroendocrine cancer</td>
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<tr>
<td>Small cell carcinoma</td>
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</tbody>
</table>

### Final histological diagnosis

*(Use 2015 WHO classification for combined tumours)*

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### SEPARATE EXTRATHYMIC TUMOUR NODULES/METASTASES

#### Pleural and/or pericardial

- **Present**
- **Not identified**

<table>
<thead>
<tr>
<th>Location</th>
<th>Percentage</th>
</tr>
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<tbody>
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<td></td>
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</tbody>
</table>

Specify location(s)  
Specify number/location

#### Pulmonary intraparenchymal

- **Present**
- **Not identified**

Specify site(s)

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### EXTENT OF DIRECT INVASION

#### Tumour capsule

- No invasion beyond capsule or limit of the thymus
- Invasion beyond the mediastinum

#### Mediastinal pleura

- Not involved
- Involved

#### Pericardium

- Not involved
- Involved

#### Lung (pulmonary parenchyma, visceral pleura, or both)

- Not involved
- Involved

Specify lobe(s) of the lung

#### GREAT VESSELS

- **Brachiocephalic** (innominate) vein
  - Not involved
  - Involved

- **Superior vena cava**
  - Not involved
  - Involved

- **Extrapericardial pulmonary artery or veins**
  - Not involved
  - Involved

- **Aorta** (ascending, arch or descending)
  - Not involved
  - Involved

- **Arch vessels**
  - Not involved
  - Involved

- **Intrapericardial pulmonary artery**
  - Not involved
  - Involved

#### Phrenic nerve

- Not involved
- Involved

#### Other involved organ(s)/site(s) by direct spread

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### RESPONSE TO NEOADJUVANT THERAPY

- No or minimal tumour response
- Partial tumour response
- Complete or near-complete response

### COEXISTENT PATHOLOGY

#### Thymic hyperplasia
  - Follicular
  - Epithelial
  - True

#### Other, specify

#### Cystic changes
  - In tumour
  - In adjacent thymus

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### MARGIN STATUS

- Cannot be assessed
- Not involved
- Involved

Macroscopic

Specify margin(s), if possible

Microscopic

Specify margin(s), if possible

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## Lymph Node Status

- **Anterior (perithymic) nodes (N1)**
  - Number of lymph nodes examined
  - Number of positive lymph nodes
  - Number cannot be determined

- **Deep intrathoracic or cervical nodes (N2)**
  - Number of lymph nodes examined
  - Number of positive lymph nodes
  - Number cannot be determined

- **Unspecified location within N1 or 2**
  - Number of lymph nodes examined
  - Number of positive lymph nodes
  - Number cannot be determined

- **Location(s) outside N1 or 2 (M1b disease)**
  - Number of lymph nodes examined
  - Number of positive lymph nodes
  - Number cannot be determined

## Ancillary Studies

### Immunohistochemical markers

- **Performed**
- **Not performed**

<table>
<thead>
<tr>
<th>Positive markers</th>
<th>Negative markers</th>
<th>Equivocal markers</th>
</tr>
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</table>

**Interpretation and conclusions**

### Molecular studies

- **Performed**
- **Not performed**

**Specify tests and results**

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## TNM 8th Edition Pathologic Staging for Thymic Epithelial Tumours

### Primary tumour (pT)

- **TX** Primary tumour cannot be assessed
- **T0** No evidence of primary tumour
- **T1** Tumour encapsulated or extending into the mediastinal fat, may involve the mediastinal pleura.
- **T1a** No mediastinal pleural involvement
- **T1b** Direct invasion of the mediastinal pleura
- **T2** Tumour with direct involvement of the pericardium (partial or full thickness).
- **T3** Tumour with direct invasion into any of the following; lung, brachiocephalic vein, superior vena cava, phrenic nerve, chest wall, or extrapericardial pulmonary artery or vein
- **T4** Tumour with direct invasion into any of the following; aorta (ascending, arch or descending), arch vessels, intrapericardial pulmonary artery, myocardium, trachea, or oesophagus

### Regional lymph nodes (pN)

- **NX** Regional lymph nodes cannot be assessed
- **N0** No regional lymph node metastasis
- **N1** Metastasis in anterior (perithymic) lymph nodes
- **N2** Metastasis in deep intrathoracic or cervical lymph nodes

### Distant metastases (pM)

- **Not applicable**
- **M0** No pleural, pericardial or distant metastasis
- **M1** Distant metastasis
- **M1a** Separate pleural or pericardial nodule(s)*
- **M1b** Distant metastasis beyond the pleura or pericardium*

*listed as clinical M

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## Caveats