

AJCC Staging: Inside Story for New 2025 Changes

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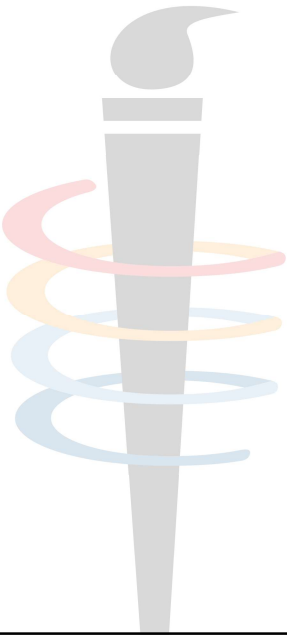
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AJCC Nasopharynx Version 9 – 2025



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Nasopharynx: Major Changes

- T clarifications
 - T3 – skull base involvement
 - T4 – orbit involvement includes inferior orbital fissure; cranial nerve involvement
- N3 addition of advanced radiologic and/or clinical extranodal extension
 - Advanced radiologic ENE – **unequivocal evidence** of tumor invasion through nodal capsule **into adjacent structures: muscle, skin, or neurovascular structures**
- M1a and M1b categories subdivided by number of met lesions
- Stage groups underwent many revisions
- Minor salivary gland tumors **NO** longer included in nasopharynx staging

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Nasopharynx: Important Information

- Squamous cell histologies
 - Keratinizing and non-keratinizing **only**
 - No longer includes NOS, since pathologists state the type **can be** determined
- Changed style of T & N categories to clarify criteria
 - Bullets
 - OR, AND all, AND any – **carefully note difference** in each of these
- Mets determined by **number** of lesions, **not** organs/sites involved
- ENE – terminology changed from gross ENE to clinically overt ENE
 - Applies to assessment of **cervical nodes only**, not retropharyngeal nodes

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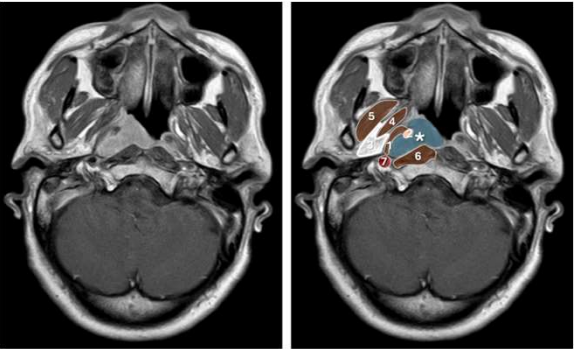
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Nasopharynx: Illustrations

- Line drawings for anatomy and nodal map
- Imaging used to illustrate T1-T4 and N1-N3 categories
- Pathology slides showcasing histopathologic features

FIGURE NASOPHARYNX-T1. Nasopharyngeal carcinoma (*, blue) confined to the nasopharynx and displacing the right levator palatini muscle (1, brown), torus tubarius (2, pink), and compressing the prevertebral muscle (6, brown) but without invasion of the muscle or other T2 structures (parapharyngeal fat (3, white), medial (4) and lateral (5) pterygoid muscles (brown), or carotid sheath (7, red)).



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Nasopharynx: Clinical/Pathological Staging & Workup

| DIAGNOSTIC WORKUP | DESCRIPTION | SPECIFIC CONTRIBUTION TO TNM CATEGORY |
|--|---|---------------------------------------|
| Clinical Exam | | |
| Physical examination, head & neck | Assess cranial nerves, and neck lymph nodes | T1-T4, N1-N3, M1 |
| Nasopharynx endoscopic/mirror examination | Assess nasopharynx involvement of nasal cavity and adjacent pharyngeal structures | T1-T4 |
| Imaging | | |
| MRI head and neck, contrast preferred | Orbit to suprasternal notch | T1-T4, |
| CT head and neck, contrast preferred | Orbit to suprasternal notch | T1-T4, |
| "F-Fluorodeoxyglucose PET-CT, contrast preferred | Whole body | T1-T4, |
| CT chest and at least upper abdomen, contrast preferred | Chest and upper abdomen | M1 |
| Skeletal scintigraphy | Bones | M1 |
| Laboratory Studies | | |
| Plasma Epstein-Barr virus (EBV) DNA assay | In certain cases, it helps determine primary site | T0 |
| Tissue Epstein-Barr virus encoded RNA (EBER) in-situ hybridization | In certain cases, it helps determine primary site | T0 |

| CATEGORY | SPECIMEN | PATHOLOGIST | MANAGING PHYSICIAN (Stage Documented by Cancer Registry) |
|---------------------|---|--|--|
| General Information | | <ul style="list-style-type: none">Assignment of pTNM categories is based on surgical resection specimen, as well as intraoperative findings, biopsy procedures and clinical evaluation up to the point of definitive surgical treatment, if availableAll other surgical procedure specimens use cTNM; for example, biopsy of a positive regional lymph node without surgical resection of the primary carcinoma is classified as cN1 | <ul style="list-style-type: none">Assignment of pTNM categories for the patient requires use of information from all biopsy procedures performed during the clinical evaluation up to and including definitive surgical treatmentRequires information from clinical assessment or imaging studies or intraoperative findings to assign pTNM categories (may not change pTNM, but must be considered) |
| pTX | | Not for use by pathologist; assigned only by managing physician | May assign if unable to determine pT category after surgical resection |
| pT0 | | No tumor found in specimen and never identified on diagnostic biopsies | No tumor found in specimen and never identified on diagnostic biopsies |
| pTis | Resection of primary tumor is rare, except for locoregional recurrent tumor | Sites invaded or involved | Pathology reports +/- appropriate clinical exam, imaging studies, and intraoperative findings |
| pT1 | | | |
| pT2 | | | |
| pT3 | | | |

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Nasopharynx: Staging Rules

Diagnostic Workup –
A. Clinical Staging

Systemic and/or
Radiation
Treatment

C. Posttherapy
Clinical Staging

No Residual
Disease

Residual Disease
– Surgical
Resection

D. Posttherapy
Pathological
Staging

- Common **staging** scenario
 - Primary treatment is radiation with/without systemic therapy
 - Staging** is A and C in figure
 - If posttherapy clinical eval (yc) shows residual tumor is resectable
 - Patient may undergo surgical resection
 - Posttherapy pathological **staging** (yp) is also D in figure
 - Unlike other H&N ca, resection is only for persistent or recurrent tumor

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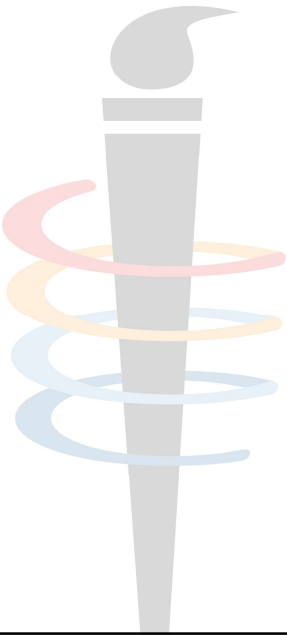
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AJCC Thymus Version 9 – 2025



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Thymus: Major Changes

- T1
 - Subdivided based on tumor size
 - Previously based on involvement of mediastinal pleura
- T2
 - Added direct invasion of lung
 - Added direct invasion of phrenic nerve
- T3
 - Removed direct invasion of lung (moved to T2)
 - Removed direct invasion of phrenic nerve (moved to T2)

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Thymus: Important Information

- Terminology for thymic malignancies
 - TET – thymic epithelial tumors, includes thymomas and thymic carcinomas
 - T-NEN – thymic neuroendocrine neoplasms
- Histologies
 - List grouped by epithelial and neuroendocrine
 - Further subgrouped by types under these main categories
- N category
 - Divided by anterior regions (N1) and deep regions (N2)
 - [Table in protocol](#) provides detailed list by
 - Region boundaries
 - Node groups (names, stations)

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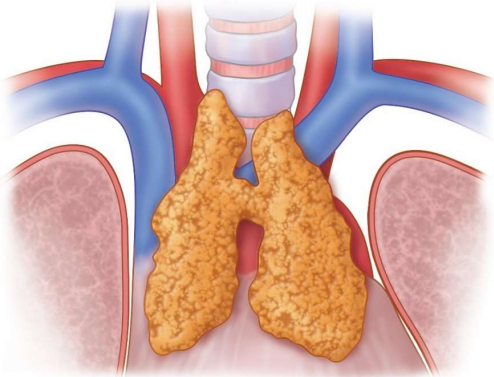
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Thymus: Illustrations

- AJCC provided anatomy illustration
- IASLC graciously provided illustrations
 - T1-T4
 - N1-N2
 - M1a-M1b
 - Stage I-IVB
- IASLC graciously provided
 - Imaging nodal maps

FIGURE THYMUS-ANATOMY.
Anatomy illustration for the thymus.



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Thymus: Clinical/Pathological Staging & Workup

| DIAGNOSTIC WORKUP | DESCRIPTION | SPECIFIC CONTRIBUTION TO TNM |
|----------------------|---------------------------------------|------------------------------|
| Clinical Exam | | |
| Physical examination | Assess for tumor or node involvement | T3-T4, N2 |
| Imaging | | |
| CT chest | Chest | T1-T4, N1 |
| MRI chest | Chest | T1-T4, N1 |
| PET/CT | Whole body or skull base to mid-thigh | T1-T4, N1 |
| Laboratory Studies | | |
| None | | |

| CATEGORY | SPECIMEN | PATHOLOGIST | MANAGING PHYSICIAN (Stage Documented by Cancer Registry) |
|---------------------|-----------|---|--|
| General Information | | <ul style="list-style-type: none">• Assignment of pTNM categories are based on surgical resection specimen, as well as intraoperative findings, biopsy procedures and clinical evaluation up to the point of definitive surgical treatment, if available• All other surgical procedure specimens use cTNM; for example, biopsy of a positive regional lymph node without surgical resection of the primary carcinoma is classified as cN1 | <ul style="list-style-type: none">• Assignment of pTNM categories for the patient requires use of information from all biopsy procedures performed during the clinical evaluation up to and including definitive surgical treatment• Requires information from clinical assessment or imaging studies or intraoperative findings to assign pTNM categories (may not change pTNM, but must be considered) |
| pTX | | Not for use by pathologist; assigned only by managing physician | May assign if unable to determine pT category after surgical resection |
| pT0 | Resection | No tumor found in specimen and never identified on diagnostic biopsies | No tumor found in specimen and never identified on diagnostic biopsies |
| pT1 | Resection | For a proper assignment of a T1 subcategory the pathologist needs to measure the largest dimension of the tumor in the resected specimen | Classify according to the pathology report +/- appropriate clinical exam, imaging studies and intraoperative findings |
| pT1a | | | |
| pT1b | | | |
| pT2 | | | |
| pT3 | | | |
| cT4 | | For a proper assignment of any T2, T3, and T4 category the pathologist needs to confirm the invasion microscopically | |

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Thymus: Staging Rules

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graph LR; A[Diagnostic Workup – A. Clinical Staging] --> B[Surgical Treatment]; A --> C[Systemic and/or Radiation Treatment]; B --> B1[B. Pathological Staging]; C --> C1[C. Posttherapy Clinical Staging]; C1 --> D[Surgical Resection]; D --> D1[D. Posttherapy Pathological Staging];
```

- Common **staging** scenario
 - Most are treated surgically, **staging** is A and B in figure
 - Less commonly, neoadjuvant with potential subsequent surgical resection
 - Cases have more extensive disease
 - **Staging** is A and C in figure
 - If residual tumor and resection performed, **staging** is also D in figure
 - Important to always assign A (clinical staging) along with posttherapy C and D
 - Need starting point and endpoints to evaluate neoadjuvant therapy

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AJCC Lung Version 9 – 2025

A graphic featuring a stylized torch with a grey handle and a grey flame. Three concentric, swirling bands of color (pink, yellow, and blue) encircle the handle of the torch.

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Lung: Major Changes

- T2a, T3, & T4 categories revised
 - Some structures moved to higher T categories
 - Additional structures added to various T categories
- N2 category subdivided by **single or multiple nodal stations**
- M1c category subdivided by **single or multiple organ systems**
- Stage groups underwent some revisions
- Spread through air spaces (STAS) new prognostic factor
 - Tumor cells within first alveolar spaces in lung beyond main tumor edge
 - Determined by pathologist, required on CAP protocols
 - Associated with worse outcomes and affects treatment plans

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Lung: Important Information

- T categories were restructured to remove ambiguity
 - Size criteria **may be different** from size criteria with features
 - Too many still attributed initial size to entire category – needed to correct
- Tumors with ground glass/lepidic and solid components
 - **Solid component** size reported by radiology & pathology
 - Total tumor size also reported by radiology & pathology
 - **Solid component size (invasive size) determines T category**
 - Future registry data needs may include total tumor size
- N categories based on nodal **stations**
 - N2 subdivided by nodal **stations** involved, **NOT number of nodes**
 - N2a – single station (may be multiple nodes in single station)
 - N2b – multiple stations

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Non-Small Cell Lung Ca Histology

- 8046 **removed** from WHO blue books in 2004 (**21 years ago!**)
- AJCC includes 8010 non-small cell carcinoma NOS, but not 8046
- CAP Protocol
 ___ Non-small cell carcinoma, subtype cannot be determined
- Verified with WHO BB pathologist, CAP Ca Comm lung pathologist expert
 - Non-small cell ca is not referring to 8046 criteria
 - Rather it is following criteria of “carcinoma but subtype cannot be determined”
 - Use 8010 non-small cell ca NOS (carcinoma NOS) as this reflects actual diagnosis
- Rules for pathologists & physicians

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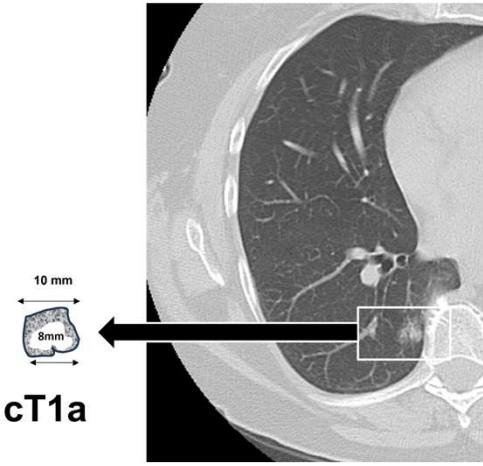
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Lung: Illustrations

- Line drawing for anatomy
- Imaging for measuring total tumor size and solid component
- Imaging and drawings for multiple tumors
- Imaging/pathology slides/drawings for T1-T4, N1-N3, M1a-M1c2 categories, some graciously provided by IASLC

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FIGURE LUNG-IMAGING INVASIVE ADENOCARCINOMA (cT1a).
10 mm part solid nodule in the right lower lobe with an 8 mm solid component (white box); schematic drawing showing 10 mm total tumor (solid + ground glass component); solid (white) 8 mm determines the invasive component and the cT category of cT1a.



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Lung: Clinical/Pathological Staging & Workup

| DIAGNOSTIC WORKUP | DESCRIPTION | SPECIFIC CONTRIBUTION TO TNM CATE | CATEGORY | SPECIMEN | PATHOLOGIST | MANAGING PHYSICIAN (Stage Documented by Cancer Registry) |
|---|---|-----------------------------------|--|---|---|---|
| Clinical Exam | | | General Information | | • Assignment of pTNM categories are based on surgical resection specimen , as well as intraoperative findings, biopsy procedures and clinical evaluation up to the point of definitive surgical treatment, if available • All other surgical procedure specimens use cTNM; for example, biopsy of a positive regional lymph node without surgical resection of the primary carcinoma is classified as cN1 | • Assignment of pTNM categories for the patient requires use of information from all biopsy procedures performed during the clinical evaluation up to and including definitive surgical treatment • Requires information from clinical assessment or imaging studies or intraoperative findings to assign pTNM categories (may not change pTNM, but must be considered) |
| Physical examination | Assess neck, axillary, and inguinal lymph nodes; hepatomegaly, splenomegaly; neurologic abnormalities | N3, M1b-c | | | | |
| Pulmonary function tests | Assess lung volume and capacity | None | | | | |
| Bronchoscopy | Size, location, spread | T0-T4 | | | | |
| Mediastinoscopy, extended cervical mediastinoscopy, parasternal mediastinotomy | Direct invasion of mediastinum, nodal involvement | T4, N1-N3 | | | | |
| Pleuroscopy, video-assisted thorascopic surgery (VATS), robotic-assisted thorascopic surgery (RATS) | Pleural involvement, nodal involvement | T3-T4, N1-N: | | | | |
| Imaging | | | pTX | | Not for use by pathologist; assigned only by managing physician | May assign if unable to determine pT category after surgical resection |
| CT chest and upper abdomen | Chest and upper abdomen | T0-T4, N1-N: | | | | |
| PET/CT | Skull to mid-thigh | T0-T4, N1-N: | | | | |
| MRI head | Head | M1b-c | | | | |
| MRI chest and abdomen | Chest and abdomen | T0-T4, N1-N: | | | | |
| CT abdomen and pelvis | Abdomen and pelvis | M1a-c | | | | |
| Laboratory Studies | | | pT0 | | No tumor found in specimen and never identified on diagnostic biopsies | No tumor found in specimen and never identified on diagnostic biopsies |
| Sputum cytology | Tumor not visualized | TX | | | | |
| Pleural or pericardial fluid cytology | Intrathoracic metastasis | M1a | | | | |
| | | | | | | |
| | | | | | | |
| | | | pTis [AIS, SCIS] pT1 pT1mi pT1a | Wedge, segmental, lobectomy, bilobectomy, sleeve resection, or pneumonectomy surgical resection | Invasive size of tumor | Pathology reports +/- appropriate clinical exam, imaging studies, and intraoperative findings |

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Lung: Staging Rules

Diagnostic Workup – A. Clinical Staging

Surgical Resection

Systemic and/or Radiation Treatment

B. Pathological Staging

C. Posttherapy Clinical Staging

Surgical Resection

D. Posttherapy Pathological Staging

• Common **staging** scenario

• Surgical treatment, **staging** is A and B in figure

• Initially unresectable, systemic and/or radiation with potential surgical resection

- More extensive disease
- **Staging** is A and C
- If residual tumor is resectable, **staging** is also D in figure
- Important to always assign A (clinical staging) along with posttherapy C and D
- Need starting point and endpoints to evaluate neoadjuvant therapy

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AJCC Diffuse Pleural Mesothelioma Version 9 – 2025



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Diffuse Pleural Mesothelioma: Major Changes

- Clinical T categories
 - Quantitative **pleural thickness measurements** added
 - Modified previous T criteria of involvement and/or invasion
- Pathological T categories
 - Modified previous T criteria of involvement and/or invasion
- Prognostic stage groups revised based on changes to cT categories
- New grading system for **epithelioid mesothelioma**
 - Not used for other two types: biphasic and sarcomatoid

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Diffuse Pleural Mesothelioma: Important Information

- Title change is important
 - 8th edition Malignant PM vs. Version 9 Diffuse PM
 - No need for word “malignant”
 - Only diffuse** mesothelioma tumors are staged, **not** localized or in situ
- N2 clarification
 - Includes** contralateral intrathoracic (hilar and bronchopulmonary)
- cT terminology for **measuring pleural thickness** on CT imaging
 - Psum – sum of 3 measurements in upper, middle & lower chest
 - Psum = pmax1 + pmax2 + pmax3
 - Fmax – measurement of pleural thickness in fissure

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Epithelioid Mesothelioma Grade

Grading of Epithelioid Mesothelioma

| Nuclear Atypia Score | | | Mitotic Count Score | |
|----------------------|----------|---|---------------------|---|
| 1 | Mild | + | 1 | Low (≤ 1 mitoses/2 mm ²) |
| 2 | Moderate | | 2 | Intermediate (2-4 mitoses/2 mm ²) |
| 3 | Severe | | 3 | High (≥ 5 mitoses/2 mm ²) |

↓

| Sum | |
|--------|-------------------|
| 2 or 3 | Nuclear grade I |
| 4 or 5 | Nuclear grade II |
| 6 | Nuclear grade III |

+

| Necrosis | |
|----------|--|
| Present | |
| Absent | |

↓

| G | G Definition |
|----------------------|--|
| — LG (Low Grade) | Nuclear grade I with or without necrosis |
| | OR |
| | Nuclear grade II without necrosis |
| — HG (High Grade) | Nuclear grade II with necrosis |
| | OR |
| | Nuclear grade III with or without necrosis |

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Diffuse Pleural Mesothelioma: Illustrations

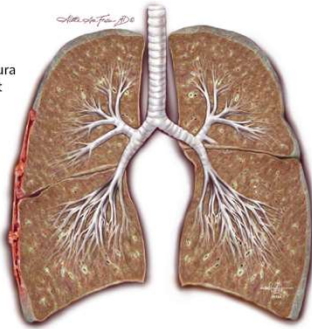
- Line drawings for anatomy and nodal map
- IACLS graciously provided illustrations for measuring pleural thickness
- IACLS graciously provided illustrations for T1-T4, and N1-N2

FIGURE DIFFUSE PLEURAL MESOTHELIOMA-T1. Reprinted courtesy of the International Association for the Study of Lung Cancer. Copyright ©2024, Aletta Ann Frazier. Figures 1-7. IASLC Atlas Figures of Mesothelioma Staging, reprinted from the IASLC Staging Manual in Thoracic Oncology, 3rd Edition (p. 174-177).

T1

CLINICAL T (cT)
cT1: Tumor limited to the ipsilateral pleura with Psum^a ≤12mm with no involvement of the fissure (Fmax^b ≤5mm)

PATHOLOGICAL T (pT)
pT1: Tumor limited to the ipsilateral pleura with no involvement of the fissure



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Pleural Mesothelioma: Clinical/Pathological Staging & Workup

| DIAGNOSTIC WORKUP | DESCRIPTION | SPECIFIC CONTRIBUTION TO T | CATEGORY | SPECIMEN | PATHOLOGIST | MANAGING PHYSICIAN (Stage Documented by Cancer Registry) |
|---|--|----------------------------|---------------------|--|---|--|
| Clinical Exam | | | | | | |
| Physical examination | Assess primary tumor extending into chest wall soft tissues; Supraclavicular or other extrathoracic lymph nodes | T4, N | General Information | | <ul style="list-style-type: none">Assignment of pTNM categories are based on surgical resection specimen, as well as intraoperative findings, biopsy procedures and clinical evaluation up to the point of definitive surgical treatment, if availableAll other surgical procedure specimens use cTNM; for example, biopsy of a positive regional lymph node without surgical resection of the primary carcinoma is classified as cN1 | <ul style="list-style-type: none">Assignment of pTNM categories for the patient requires use of information from all biopsy procedures performed during the clinical evaluation up to and including definitive surgical treatmentRequires information from clinical assessment or imaging studies or intraoperative findings to assign pTNM categories (may not change pTNM, but must be considered) |
| Mediastinoscopy; EBUS-TBNA; EUS-FNA | Lymph node involvement | N0-N | | | | |
| Laparoscopy | Assess direct tumor extension through diaphragm; assess presence or absence of metastatic disease involving peritoneum | T4, N | | | | |
| Imaging | | | | | | |
| CT chest and (upper) abdomen | Chest and upper abdomen | T0-T | pTX | | Not for use by pathologist; assigned only by managing physician | May assign if unable to determine pT category after surgical resection |
| PET/CT | Skull base to mid-thigh | T0-T | pT0 | | No tumor found in specimen and never identified on diagnostic biopsies | No tumor found in specimen and never identified on diagnostic biopsies |
| MRI chest and (upper) abdomen (optional since only CT, not MRI is required for clinical staging in Version 9) | Chest and upper abdomen to assess for chest wall and/or diaphragmatic invasion | T0-T | pT1 | Partial pleurectomy, pleurectomy/decortication, extended pleurectomy/decortication, extrapleural pneumonectomy | Location of tumor and areas of invasion or involvement | Pathology reports +/- appropriate clinical exam, imaging studies, and intraoperative findings |
| Laboratory Studies | | | pT2 | | | |
| CBC, CMP | Assess for anemia, leukocytosis, thrombocytosis, and/or hypoalbuminemia | | pT3 | | | |
| | | | pT4 | May not be resected but extent of tumor would be | pT4 may be documented by pathologist if relevant biopsy | Pathological stage may be assigned if confirmed by relevant biopsy |

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Diffuse Pleural Mesothelioma: Staging Rules

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graph LR; A[Diagnostic Workup - A. Clinical Staging] -- blue --> B[Surgical Treatment]; A -- red --> C[Systemic and/or Radiation Treatment]; B -- blue --> B2[B. Pathological Staging]; C -- red --> C2[C. Posttherapy Clinical Staging]; C2 -- red --> D[Surgical Resection]; D -- red --> D2[D. Posttherapy Pathological Staging];
```

- Common **staging** scenario
 - Surgical treatment, **staging** is A and B in figure
 - Initially unresectable, systemic and/or radiation with potential surgical resection
 - More extensive disease
 - **Staging** is A and C
 - If residual tumor is resectable, **staging** is also D in figure
 - Important to always assign A (clinical staging) along with posttherapy C and D
 - Need starting point and endpoints to evaluate neoadjuvant therapy

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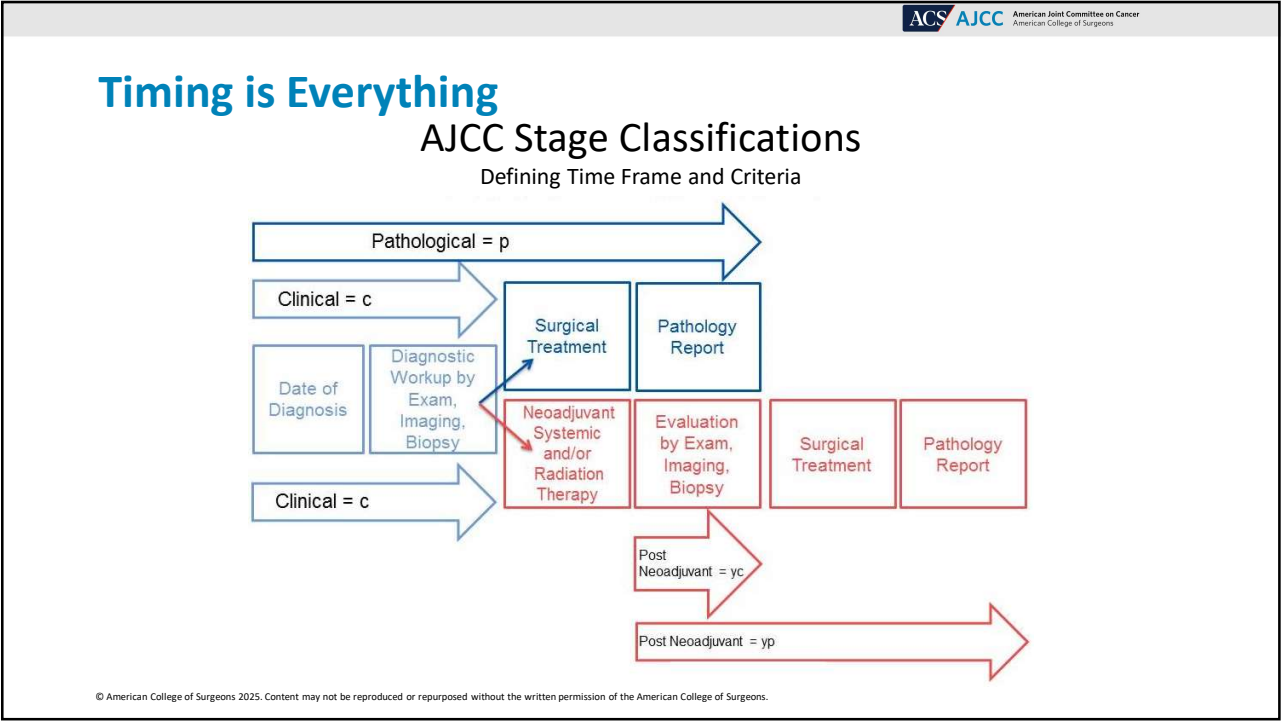
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Information and Questions on AJCC Staging

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AJCC Web Site

- <https://cancerstaging.org>
- <https://www.facs.org/quality-programs/cancer-programs/american-joint-committee-on-cancer/>
- General information
 - Overview
 - AJCC Staging Online
 - Version 9
 - Cancer Staging Systems
 - AJCC 8th edition Chapter 1: Principles of Cancer Staging
 - Cancer Staging Education
 - FAQ & Resources

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NEW AJCC Webinars Posted Fall 2023

- Principles of Cancer Staging
 - Blank Vs. X Definitions and Data Interpretation for AJCC Staging
 - Do Not Use Registry Ambiguous Terminology for AJCC Staging
- AJCC 8th Edition Staging
 - Breast
 - Colorectal
 - Lung
 - Melanoma
 - Prostate
- Critical Clarifications
 - AJCC 8th Edition Melanoma Staging – 1-page resource highlighting rules

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AJCC Staging Online

Discover AJCC Staging Online

With Version 9 updates

New website provides access to the entire AJCC Cancer Staging System, with all the latest Version 9 updates available to individual users for just \$49.99 per year.

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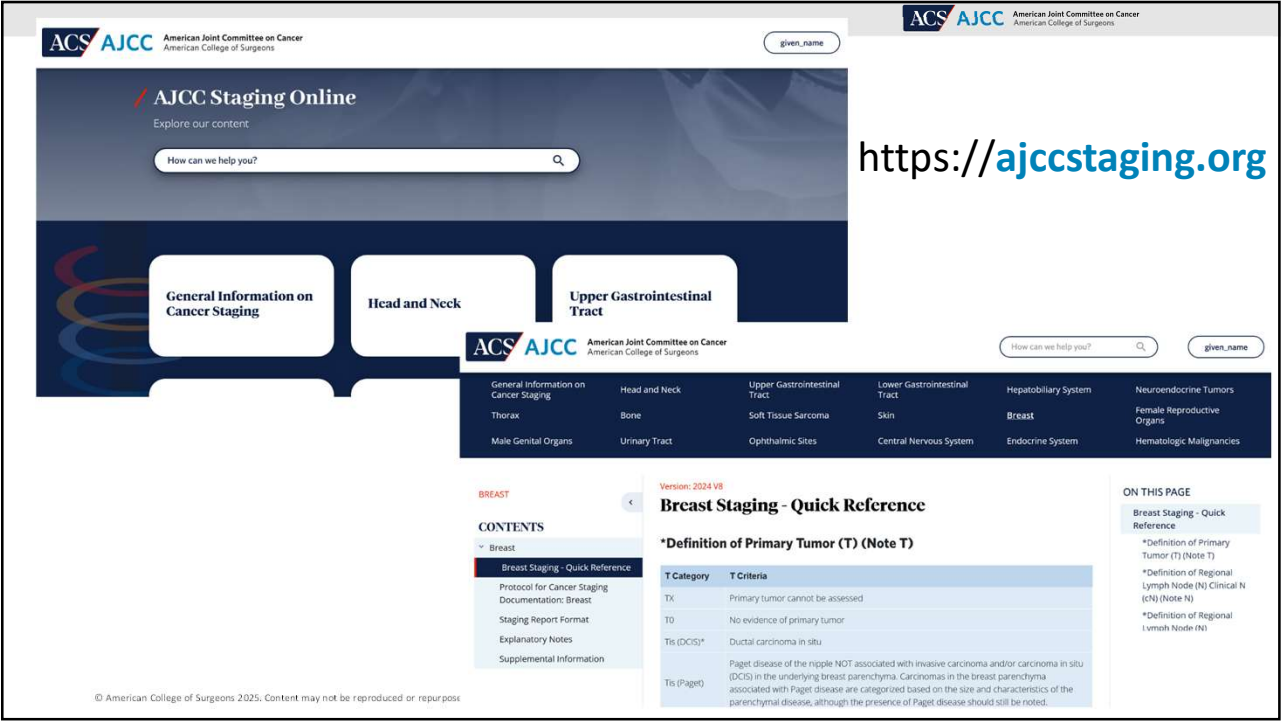
AVAILABLE NOW

facs.org/ajconline





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CAnswer Forum

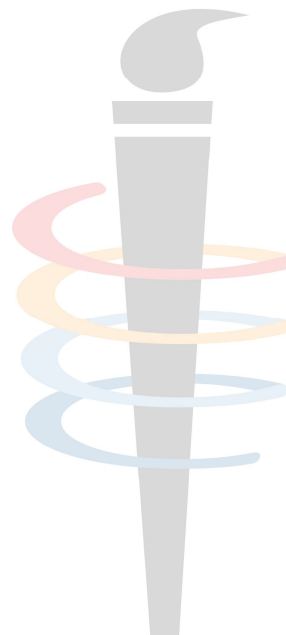
- Submit questions to AJCC Forum
 - Version 9 Forum
 - 8th Edition Forum
 - Located within CAnswer Forum
 - Provides information for all
 - Allows tracking for educational purposes
- <http://cancerbulletin.facs.org/forums/>

CAnswer Forum
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Summary




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Summary

- Discussed key points of four new AJCC Version 9 protocols
 - Understanding strategies of new staging systems
- Dissect changes in new staging systems
 - Identified areas of change
 - Explored the rationale
- Examine illustrations, workup tables and disease-specific staging rules
 - New types of illustrations, radiology and some color images
 - New features of AJCC protocols
 - Usage from a registrar's point of view
 - Staging customization compared/contrasted to Timing is Everything graphic


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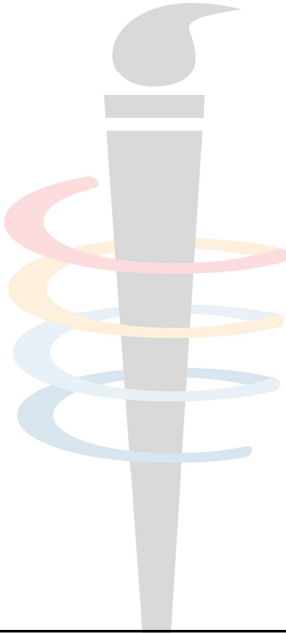
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Thank You


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AJCC and Cancer Programs



cancerstaging.org



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