Protocol for the Examination of Resection Specimens From Patients With Carcinoma of the Urethra and Periurethral Glands

Version: 4.1.0.0
Protocol Posting Date: June 2021
CAP Laboratory Accreditation Program Protocol Required Use Date: March 2022

The changes included in this current protocol version affect accreditation requirements. The new deadline for implementing this protocol version is reflected in the above accreditation date.

For accreditation purposes, this protocol should be used for the following procedures AND tumor types:

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resection</td>
<td>Includes specimens designated urethrectomy, radical cystectomy, radical cystoprostatectomy, penectomy, and pelvic exenteration</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tumor Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinomas</td>
<td>Includes invasive carcinomas of the urinary tract, including urothelial carcinoma and its morphological variants (squamous cell carcinoma, adenocarcinoma, Müllerian carcinoma, neuroendocrine carcinoma, and sarcomatoid carcinoma)</td>
</tr>
</tbody>
</table>

# This protocol is recommended for reporting noninvasive urothelial tumors (papillary and flat), but it is not required for accreditation purposes.

This protocol is NOT required for accreditation purposes for the following:

<table>
<thead>
<tr>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biopsy (consider the Urethra Biopsy protocol)</td>
</tr>
<tr>
<td>Transurethral resection*</td>
</tr>
<tr>
<td>Primary resection specimen with no residual cancer (eg, following neoadjuvant therapy)</td>
</tr>
<tr>
<td>Cytologic specimens</td>
</tr>
</tbody>
</table>

*Transurethral resection of a urethral tumor is NOT considered to be the definitive resection specimen, even though the entire cancer may be removed. A protocol is recommended for reporting such specimens for clinical care purposes, but this is not required for accreditation purposes.

The following tumor types should NOT be reported using this protocol:

<table>
<thead>
<tr>
<th>Tumor Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lymphoma (consider the Hodgkin or non-Hodgkin Lymphoma protocols)</td>
</tr>
<tr>
<td>Sarcoma (consider the Soft Tissue protocol)</td>
</tr>
</tbody>
</table>

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With guidance from the CAP Cancer and CAP Pathology Electronic Reporting Committees.
* Denotes primary author.
Accreditation Requirements
This protocol can be utilized for a variety of procedures and tumor types for clinical care purposes. For accreditation purposes, only the definitive primary cancer resection specimen is required to have the core and conditional data elements reported in a synoptic format.

- **Core data elements** are required in reports to adequately describe appropriate malignancies. For accreditation purposes, essential data elements must be reported in all instances, even if the response is “not applicable” or “cannot be determined.”
- **Conditional data elements** are only required to be reported if applicable as delineated in the protocol. For instance, the total number of lymph nodes examined must be reported, but only if nodes are present in the specimen.
- **Optional data elements** are identified with “+” and although not required for CAP accreditation purposes, may be considered for reporting as determined by local practice standards.

The use of this protocol is not required for recurrent tumors or for metastatic tumors that are resected at a different time than the primary tumor. Use of this protocol is also not required for pathology reviews performed at a second institution (ie, secondary consultation, second opinion, or review of outside case at second institution).

Synoptic Reporting
All core and conditionally required data elements outlined on the surgical case summary from this cancer protocol must be displayed in synoptic report format. Synoptic format is defined as:

- Data element: followed by its answer (response), outline format without the paired Data element: Response format is NOT considered synoptic.
- The data element should be represented in the report as it is listed in the case summary. The response for any data element may be modified from those listed in the case summary, including “Cannot be determined” if appropriate.
- Each diagnostic parameter pair (Data element: Response) is listed on a separate line or in a tabular format to achieve visual separation. The following exceptions are allowed to be listed on one line:
  - Anatomic site or specimen, laterality, and procedure
  - Pathologic Stage Classification (pTNM) elements
  - Negative margins, as long as all negative margins are specifically enumerated where applicable
- The synoptic portion of the report can appear in the diagnosis section of the pathology report, at the end of the report or in a separate section, but all Data element: Responses must be listed together in one location.

Organizations and pathologists may choose to list the required elements in any order, use additional methods in order to enhance or achieve visual separation, or add optional items within the synoptic report. The report may have required elements in a summary format elsewhere in the report IN ADDITION TO but not as replacement for the synoptic report ie, all required elements must be in the synoptic portion of the report in the format defined above.

Summary of Changes
v 4.1.0.0

- General Reformatting
- Revised Margins Section
- Revised Lymph Nodes Section
- Added Distant Metastasis Section
- Removed pTX and pNX Staging Classification
Reporting Template

Protocol Posting Date: June 2021
Select a single response unless otherwise indicated.

CASE SUMMARY: (URETHRA: Resection)
Standard(s): AJCC-UICC 8

SPECIMEN
___ Male anatomy
___ Female anatomy

Procedure
___ Partial urethrectomy
___ Total urethrectomy
___ Urethrectomy with cystectomy
___ Urethrectomy with cystoprostatectomy
___ Urethrectomy with penectomy
___ Anterior exenteration
___ Other (specify): ____________________
___ Not specified

TUMOR

+Tumor Site (select all that apply)
Male
___ Penile urethra
___ Bulbomembranous urethra
___ Prostatic urethra
Female
___ Anterior urethra
___ Posterior urethra
Other
___ Urethra, not otherwise specified: ____________________

Histologic Type (Note A) (select all that apply)
Urothelial
___ Papillary urothelial carcinoma, noninvasive
___ Papillary urothelial carcinoma, invasive
___ Urothelial carcinoma in situ
___ Urothelial carcinoma, invasive
___ Urothelial carcinoma, nested (including large nested) variant
___ Urothelial carcinoma, microcystic variant
___ Urothelial carcinoma, micropapillary variant
___ Urothelial carcinoma, lymphoepithelioma-like variant
___ Urothelial carcinoma, plasmacytoid / signet ring / diffuse variant
___ Urothelial carcinoma, sarcomatoid variant
___ Urothelial carcinoma, giant cell variant
___ Urothelial carcinoma, poorly differentiated variant
___ Urothelial carcinoma, lipid-rich variant
___ Urothelial carcinoma, clear cell variant
___ Urothelial carcinoma with squamous differentiation
   +Percentage of Squamous Differentiation
     ___ Specify percentage: ____________________ %
     ___ Other (specify): ______________________
     ___ Cannot be determined
___ Urothelial carcinoma with glandular differentiation
   +Percentage of Glandular Differentiation
     ___ Specify percentage: ____________________ %
     ___ Other (specify): ______________________
     ___ Cannot be determined
___ Urothelial carcinoma with trophoblastic differentiation
   +Percentage of Trophoblastic Differentiation
     ___ Specify percentage: ____________________ %
     ___ Other (specify): ______________________
     ___ Cannot be determined
___ Urothelial carcinoma with Müllerian differentiation
   +Percentage of Müllerian Differentiation
     ___ Specify percentage: ____________________ %
     ___ Other (specify): ______________________
     ___ Cannot be determined

Squamous
___ Squamous cell carcinoma
___ Verrucous carcinoma
___ Squamous cell carcinoma in situ (no invasive carcinoma identified)

Glandular
___ Adenocarcinoma
___ Adenocarcinoma, enteric
___ Adenocarcinoma, mucinous
___ Adenocarcinoma, mixed
___ Adenocarcinoma in situ (no invasive carcinoma identified)

Tumors of Müllerian Type
___ Clear cell carcinoma
___ Endometrioid carcinoma

Neuroendocrine Tumors
___ Small cell neuroendocrine carcinoma
   +Percentage of Small Cell Neuroendocrine Component
     ___ Specify percentage: ____________________ %
     ___ Other (specify): ______________________
     ___ Cannot be determined
___ Large cell neuroendocrine carcinoma
   +Percentage of Large Cell Neuroendocrine Component
     ___ Specify percentage: ____________________ %
     ___ Other (specify): ______________________
     ___ Cannot be determined
___ Well-differentiated neuroendocrine carcinoma
   +Percentage of Well-differentiated Neuroendocrine Component
     ___ Specify percentage: ____________________ %
     ___ Other (specify): ______________________
     ___ Cannot be determined

Other
___ Other histologic type not listed (specify): _________________
**Histologic Type Comment:** _________________

### Histologic Grade (Note B)
*For urothelial carcinoma, other variants, or divergent differentiation*

___ Low-grade  
___ High-grade

*For squamous cell carcinoma or adenocarcinoma*

___ G1, well-differentiated  
___ G2, moderately differentiated  
___ G3, poorly differentiated  
___ GX, cannot be assessed: _________________

#### Other
___ Other (specify): _________________  
___ Cannot be assessed: _________________  
___ Not applicable: _________________

### Tumor Size
___ Greatest dimension in Centimeters (cm): _________________ cm  
**Additional Dimension in Centimeters (cm): ____ x ____ cm**  
___ Cannot be determined (explain): _________________

### Tumor Extent (Note C)

#### Male
___ Carcinoma of penile and bulbomembranous urethra  
___ Noninvasive papillary urothelial carcinoma  
___ Carcinoma in situ  
___ Invades subepithelial connective tissue  
___ Invades adjacent structure(s)  
___ Corpus spongiosum  
___ Periurethral muscle  
___ Corpus cavernosum  
___ Bladder wall  
___ Rectum  
___ Other (specify): _________________

___ Carcinoma of prostatic urethra  
___ Carcinoma in situ, involving prostatic urethra  
___ Carcinoma in situ, involving prostatic ducts  
___ Invades urethral subepithelial connective tissue immediately underlying the urothelium  
___ Invades prostatic stroma surrounding ducts either by direct extension from the urothelial surface or by invasion from prostatic ducts  
___ Invades periprostatic fat  
___ Invades adjacent structure(s)  
___ Extraproststatic invasion of the bladder wall  
___ Rectum  
___ Other (specify): _________________

#### Female
___ Noninvasive papillary urothelial carcinoma  
___ Carcinoma in situ  
___ Invades subepithelial connective tissue  
___ Invades adjacent structure(s)  
___ Periurethral muscle (fibromuscular and adipose tissue)
Anterior vagina
Bladder wall
Rectum
Other (specify):

Cannot be determined:
No evidence of primary tumor

Lymphovascular Invasion (Note D)
Not identified
Present
Cannot be determined:

Tumor Configuration (select all that apply)
Papillary
Solid / nodule
Flat
Ulcerated
Other (specify):
Cannot be determined:

Tumor Comment:

MARGINS (Notes E,F)

Margin Status for Invasive Carcinoma
All margins negative for invasive carcinoma

Closest Margin(s) to Invasive Carcinoma (select all that apply)
Proximal:
Distal:
Deep soft tissue:

If the specimen is received unoriented, precluding identification of margins as distal or proximal, it should be denoted here.

Cannot be determined (explain):

Distance from Invasive Carcinoma to Closest Margin
Specify in Millimeters (mm)
Exact distance:
Greater than:
At least:
Less than:
Less than 1 mm
Other (specify):
Cannot be determined:

Invasive carcinoma present at margin

Margin(s) Involved by Invasive Carcinoma (select all that apply)
Proximal:
Distal:
Deep Soft Tissue:

If the specimen is received unoriented, precluding identification of margins as distal or proximal, it should be denoted here.

Other (specify):
Cannot be determined (explain):
Margin Status for Carcinoma in Situ / Noninvasive Urothelial Carcinoma

___ All margins negative for carcinoma in situ / noninvasive urothelial carcinoma

+Closest Margin(s) to Carcinoma in Situ / Noninvasive Urothelial Carcinoma (select all that apply)

___ Proximal: _________________
___ Distal: _________________

# If the specimen is received unoriented, precluding identification of margins as distal or proximal, it should be denoted here.
___ Other (specify)#: _________________
___ Cannot be determined (explain): _________________

+Distance from Carcinoma in Situ / Noninvasive Urothelial Carcinoma to Closest Margin

Specify in Millimeters (mm)

___ Exact distance: _________________ mm
___ Greater than: _________________ mm
___ At least: _________________ mm
___ Less than: _________________ mm
___ Less than 1 mm
___ Other (specify): _________________
___ Cannot be determined: _________________

___ Carcinoma in situ / noninvasive urothelial carcinoma present at margin

Margin(s) Involved by Carcinoma in Situ / Noninvasive Urothelial Carcinoma (select all that apply)

___ Proximal: _________________
___ Distal: _________________

# If the specimen is received unoriented, precluding identification of margins as distal or proximal, it should be denoted here.
___ Other (specify)#: _________________
___ Cannot be determined (explain): _________________

___ Other (specify): _________________
___ Cannot be determined (explain): _________________
___ Not applicable

+Margin Comment: _________________

REGIONAL LYMPH NODES

Regional Lymph Node Status

___ Not applicable (no regional lymph nodes submitted or found)
___ Regional lymph nodes present

___ All regional lymph nodes negative for tumor
___ Tumor present in regional lymph node(s)

Number of Lymph Nodes with Tumor

___ Exact number (specify): _________________
___ At least (specify): _________________
___ Other (specify): _________________
___ Cannot be determined (explain): _________________
+Size of Largest Nodal Metastatic Deposit  
Specify in Centimeters (cm)  
___ Exact size: _________________ cm  
___ At least: _________________ cm  
___ Greater than: _________________ cm  
___ Less than: _________________ cm  
___ Other (specify): _________________  
___ Cannot be determined (explain): _________________  
+Nodal Site with Largest Metastatic Deposit (specify site): _________________  

+Size of Largest Lymph Node with Tumor  
Specify in Centimeters (cm)  
___ Exact size: _________________ cm  
___ At least: _________________ cm  
___ Greater than: _________________ cm  
___ Less than: _________________ cm  
___ Other (specify): _________________  
___ Cannot be determined (explain): _________________  
+Largest Lymph Node with Tumor (specify site): _________________  

+Extranodal Extension (ENE)  
___ Not identified  
___ Present  
___ Cannot be determined: _________________  
___ Other (specify): _________________  
___ Cannot be determined (explain): _________________  

Number of Lymph Nodes Examined  
___ Exact number (specify): _________________  
___ At least (specify): _________________  
___ Other (specify): _________________  
___ Cannot be determined (explain): _________________  

+Regional Lymph Node Comment: _________________  

DISTANT METASTASIS  

Distant Site(s) Involved, if applicable  
___ Not applicable  
___ Specify site(s): _________________  
___ Cannot be determined: _________________
PATHOLOGIC STAGE CLASSIFICATION (pTNM, AJCC 8th Edition) (Note G)
Reporting of pT, pN, and (when applicable) pM categories is based on information available to the pathologist at the time the report is issued. As per the AJCC (Chapter 1, 8th Ed.) it is the managing physician’s responsibility to establish the final pathologic stage based upon all pertinent information, including but potentially not limited to this pathology report.

TNM Descriptors (select all that apply)
___ Not applicable: ___________________
___ m (multiple primary tumors)
___ r (recurrent)
___ y (post-treatment)

pT Category
___ For the Male Penile Urethra and Female Urethra

   pT Category
   ___ pT not assigned (cannot be determined based on available pathological information)
   ___ pT0: No evidence of primary tumor
   ___ pTa: Non-invasive papillary carcinoma
   ___ pTis: Carcinoma *in situ*
   ___ pT1: Tumor invades subepithelial connective tissue
   ___ pT2: Tumor invades any of the following: corpus spongiosum, periurethral muscle
   ___ pT3: Tumor invades any of the following: corpus cavernosum, anterior vagina
   ___ pT4: Tumor invades other adjacent organs (invasion of the bladder)

___ For the Prostatic Urethra

   pT Category
   ___ pT not assigned (cannot be determined based on available pathological information)
   ___ pT0: No evidence of primary tumor
   ___ pTa: Non-invasive papillary carcinoma
   ___ pTis: Carcinoma *in situ* involving the prostatic urethra or periurethral or prostatic ducts without stromal invasion
   ___ pT1: Tumor invades urethral subepithelial connective tissue immediately underlying the urothelium
   ___ pT2: Tumor invades the prostatic stroma surrounding ducts either by direct extension from the urothelial surface or by invasion from prostatic ducts
   ___ pT3: Tumor invades the periprostatic fat
   ___ pT4: Tumor invades other adjacent organs (e.g., extraprostatic invasion of the bladder wall, rectal wall)

pN Category
___ pN not assigned (no nodes submitted or found)
___ pN not assigned (cannot be determined based on available pathological information)
___ pN0: No regional lymph node metastasis
___ pN1: Single regional lymph node metastasis in the inguinal region or true pelvis [perivesical, obturator, internal (hypogastric) and external iliac], or presacral lymph node
___ pN2: Multiple regional lymph node metastasis in the inguinal region or true pelvis (perivesical, hypogastric, obturator, internal and external iliac, or presacral lymph node)

pM Category (required only if confirmed pathologically)
___ Not applicable - pM cannot be determined from the submitted specimen(s)
___ pM1: Distant metastasis
### ADDITIONAL FINDINGS

**+Associated Epithelial Lesions (Note B) (select all that apply)**

- None identified
- Condyloma
- Squamous dysplasia (low, intermediate, high grade)
- Urothelial papilloma
- Urothelial papilloma, inverted type
- Papillary urothelial neoplasm, low malignant potential (PUNLMP)
- Urothelial proliferation of uncertain malignant potential
- Urothelial dysplasia
- Other (specify): __________________
- Cannot be determined: __________________

**+Additional Findings (select all that apply)**

- Keratinizing squamous metaplasia
- Inflammation / regenerative changes
- Therapy-related changes (specify): __________________
- Urethritis cystica et glandularis
- Intestinal metaplasia
- Other (specify): __________________

### COMMENTS

Comment(s): __________________
Explanatory Notes

A. Histologic Type
Carcinomas of the urethra vary in histologic type, depending on type of epithelium lining the urethra in a given anatomic location. In women, squamous cell carcinoma is the most common histologic subtype (approximately 75%) and is most common in the anterior urethra (distal third). Urothelial carcinoma is next in frequency, followed by adenocarcinoma (approximately 10% to 15% each). Clear cell adenocarcinomas comprise a significant proportion of adenocarcinomas in women but are quite rare in men. In the male, most tumors involve the bulbomembranous urethra, followed by penile urethra and prostatic urethra. Most carcinomas of the male urethra (80%) are squamous cell carcinoma, followed by urothelial origin. As in women, urothelial carcinomas are typically more proximal. Primary urethral adenocarcinomas are rare in men. Adenocarcinomas may rarely arise from the periurethral Skene’s (female) or Littre’s (male) glands. The distinction between a urothelial carcinoma with divergent squamous, glandular, or Müllerian differentiation and a pure squamous cell carcinoma, adenocarcinoma or Müllerian is rather arbitrary. Most authorities, including the 2016 World Health Organization (WHO) classification, require a pure histology of squamous cell carcinoma, adenocarcinoma, or Müllerian to designate a tumor as such, all others with recognizable papillary, invasive, or flat carcinoma in situ (CIS) urothelial component being considered as urothelial carcinoma with divergent differentiation. A malignant neoplasm with small cell neuroendocrine carcinoma component arising in the urinary tract is designated as small cell carcinoma.

2016 WHO Classification of Tumors of the Urothelial Tract

Urothelial tumors

Infiltrating urothelial carcinoma
- Nested, including large nested
- Micropapillary
- Lymphoepithelioma-like
- Plasmacytoid/signet ring cell/diffuse
- Sarcomatoid
- Giant cell
- Poorly differentiated

Noninvasive urothelial lesions
- Urothelial carcinoma in situ
- Noninvasive papillary urothelial carcinoma, low grade
- Noninvasive papillary urothelial carcinoma, high grade
- Papillary urothelial neoplasm of low malignant potential
- Urothelial papilloma
- Inverted urothelial papilloma
Urothelial proliferation of uncertain malignant potential
Urothelial dysplasia

**Squamous cell neoplasms**
Squamous cell carcinoma
Verrucous carcinoma
Squamous cell papilloma

**Glandular neoplasms**
Adenocarcinoma, NOS
  - Enteric
  - Mucinous
  - Mixed
Villous adenoma
Urachal carcinoma

**Tumors of Mullerian type**
Clear cell carcinoma
Endometrioid carcinoma

**Neuroendocrine tumors**
Small cell neuroendocrine carcinoma
Large cell neuroendocrine carcinoma
Well differentiated neuroendocrine tumor
Paraganglioma

**References**
B. Histologic Grade
Squamous cell carcinoma and adenocarcinoma are graded on a 3-tiered system as well differentiated (grade 1), moderately differentiated (grade 2), or poorly differentiated (grade 3).

For urothelial neoplasia, flat intraepithelial lesions and papillary and invasive lesions are graded separately. Due to variable classification systems and the need for a universally acceptable system, the World Health Organization/International Society of Urological Pathology (WHO/ISUP) consensus classification was proposed and has been adopted in the 2016 WHO classification\(^\text{14}\) and has been validated by many studies to be prognostically significant. Other systems (that were being used previously) may still be used according to institutional preferences. Tumor grade according to both the WHO/ISUP (1998) system and the older WHO (1973) system may be concurrently used.\(^\text{3,4}\)

Flat and papillary urothelial hyperplasia has been renamed as “urothelial proliferation of uncertain malignant potential” in the 2016 WHO classification.

References

C. Extent of Invasion
A critical role of the surgical pathologist is to diagnose the depth/extent of invasion into the tissues surrounding the urethra.\(^\text{1}\) The surrounding anatomic structures vary by gender and location within the urethra but include the subepithelial connective tissue, corpus spongiosum, corpus cavernosum, prostate, periurethral muscle, extraprostatic soft tissue, anterior vagina, bladder neck, or other adjacent organs. In the prostatic urethra, invasion may arise from a tumor lining the urethral lumen or from carcinoma in situ colonizing prostatic ducts. The pT1 designation should only be applied to superficial invasion arising from the urethral lining; invasion arising from the prostatic ducts is designated as at least pT2.\(^\text{2}\) In papillary urothelial tumors, invasion occurs most often at the base of the tumor and less frequently in the stalk.

References

D. Lymphovascular Invasion
Urethral carcinomas may invade blood vessels or lymphatic channels. In suspicious cases, surrounding endothelial cells can be highlighted by immunohistochemical staining for CD31 or CD34 and lymphatic vessel invasion by D2-40.\(^\text{14}\) Retraction artifact is prominent in invasive urothelial carcinoma, particularly the micropapillary variant, and should be distinguished from vascular space invasion.\(^\text{3}\)
References

E. Sections for Microscopic Evaluation

**Urethra**
In transurethral specimens, submit 1 section per centimeter of tumor diameter (up to 10 cassettes). If the tumor is noninvasive by the initial sampling, additional submission of tissue (including possibly submitting all tissue) is necessary to diagnose or rule out the presence of invasion. In urethrectomy specimens, submit 1 section per centimeter of tumor, including the macroscopically deepest penetration. Documentation of tumor in relation to surrounding anatomic structures (such as corpus spongiosum, corpus cavernosum, prostate, perirethral muscle, vagina, and bladder) is critical to proper staging. The distal and proximal urethral margins should be submitted (or distal urethra and bilateral ureteral margins if bladder is included), if not evaluated intraoperatively by frozen section. These margins are typically submitted en face in order to see the entire urothelial lining; however, if the tumor is grossly in close proximity to the margin, a perpendicular section showing relationship to ink may be more appropriate. The surrounding radial soft tissue margins should also be submitted, guided by the closest approximation of the tumor to ink by gross evaluation.

**Lymph Nodes**
Submit 1 section from each grossly positive lymph node. The size of grossly positive lymph nodes should be carefully recorded, especially if only representative sections are submitted that do not account for the largest dimension. All other lymph nodes should be entirely submitted, as presence of nodal disease may be used as an indication for adjuvant therapy.

**Other Tissues**
Submit 1 or more sections of other organs included in the resection. If the tumor grossly appears to invade the prostate, uterus, bladder, or vagina, sections should be targeted, such that the relationship of the infiltrating tumor in the urethra and the adjacent viscus is clearly demonstrable. Submit several sections of the urinary bladder mucosa remote from the carcinoma, especially if abnormal, including the lateral wall(s), dome, and trigone, because urothelial neoplasia is frequently multifocal. One section from each ureteral margin should be submitted if not evaluated by frozen section. Representative sections of the peripheral zone, central zone, and seminal vesicles should be included because concomitant prostatic adenocarcinoma is not uncommon. The gross examination may help target sampling of selective abnormal-appearing areas.

**F. Margins**
Resection margins, including those mentioned in Note D, should be carefully specified. Whether the margin is submitted en face or perpendicular to the inked surface should be clearly stated in the block summary.
G. Pathologic Stage Classification

The TNM Staging System for carcinomas of the urethra of the American Joint Committee on Cancer (AJCC) and the International Union Against Cancer (UICC) is recommended.1

By AJCC/UICC convention, the designation “T” refers to a primary tumor that has not been previously treated. The symbol “p” refers to the pathologic classification of the TNM, as opposed to the clinical classification, and is based on gross and microscopic examination. pT entails a resection of the primary tumor or biopsy adequate to evaluate the highest pT category, pN entails removal of nodes adequate to validate lymph node metastasis, and pM implies microscopic examination of distant lesions. Clinical classification (cTNM) is usually carried out by the referring physician before treatment during initial evaluation of the patient or when pathologic classification is not possible.

Pathologic staging is usually performed after surgical resection of the primary tumor. Pathologic staging depends on pathologic documentation of the anatomic extent of disease, whether or not the primary tumor has been completely removed. If a biopsied tumor is not resected for any reason (eg, when technically unfeasible) and if the highest T and N categories or the M1 category of the tumor can be confirmed microscopically, the criteria for pathologic classification and staging have been satisfied without total removal of the primary cancer.

Primary Tumor (T)

The suffix “m” should be added to the appropriate T category to indicate multiple tumors. The suffix “is” may be added to any T to indicate the presence of associated carcinoma in situ.

TNM Descriptors

For identification of special cases of TNM or pTNM classifications, the “m” suffix and “y” and “r” prefixes are used. Although they do not affect the stage grouping, they indicate cases needing separate analysis.

The “m” suffix indicates the presence of multiple primary tumors in a single site and is recorded in parentheses: pT(m)NM.

The “y” prefix indicates those cases in which classification is performed during or following initial multimodality therapy (ie, neoadjuvant chemotherapy, radiation therapy, or both chemotherapy and radiation therapy). The cTNM or pTNM category is identified by a “y” prefix. The ycTNM or ypTNM categorizes the extent of tumor actually present at the time of that examination. The “y” categorization is not an estimate of tumor prior to multimodality therapy (ie, before initiation of neoadjuvant therapy).

The “r” prefix indicates a recurrent tumor when staged after a documented disease-free interval and is identified by the “r” prefix: rTNM.

References