# Carcinoma of the Renal Pelvis and Ureter Histopathology Reporting Guide
## Nephroureterectomy and Ureterectomy Specimen

### CLINICAL INFORMATION

**Previous history of urinary tract disease or distant metastasis** (select all that apply)
- Information not provided
- Non-invasive papillary
- Invasion into lamina propria
- Other, specify

**Previous therapy** (select all that apply)
- Information not provided
- No previous therapy
- Bacillus Calmette-Guerin (BCG)
- Chemotherapy, intravesical, specify
- Chemotherapy, systemic
- Radiation therapy
- Other, specify

**Other clinical information, specify**

### OPERATIVE PROCEDURE

- Not specified
- Nephroureterectomy
- Ureterectomy, partial
- Ureterectomy, complete
- Ureterectomy with cystectomy
- Ureterectomy with cystoprostatectomy
- Other, specify

### ADDITIONAL SPECIMENS SUBMITTED

- Submitted, specify
- Not submitted

### TUMOUR FOCALITY

- Unifocal
- Multifocal
- Cannot be assessed, specify

### MAXIMUM TUMOUR DIMENSION

- Cannot be assessed
- No macroscopically visible tumour

**Maximum tumour dimension (largest tumour)**

<table>
<thead>
<tr>
<th>X</th>
<th>mm</th>
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**Additional dimensions (largest tumour)**

<table>
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<tr>
<th>X</th>
<th>mm</th>
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### MACROSCOPIC TUMOUR SITE

- Indeterminate
- No macroscopically visible tumour
- Ureter
- Renal pelvis
- Other, specify

### MACROSCOPIC EXTENT OF INVASION

- Cannot be assessed
- No macroscopically visible tumour
- Non-invasive tumour visible
- Invasion into wall
- Invasion into periureteral/peripelvic tissue
- Invasion into renal stroma
- Invasion into perinephric fat
- Involvement of other adjacent structures, specify

### BLOCK IDENTIFICATION KEY

(List overleaf or separately with an indication of the nature and origin of all tissue blocks)
MICROSCOPIC EXTENT OF INVASION (select all that apply)
- Cannot be assessed
- No evidence of primary tumour
- Papillary carcinoma, non-invasive
- Carcinoma in situ, flat
- Tumour invades subepithelial connective tissue (lamina propria)
- Tumour invades muscularis propria
- Tumour invades beyond muscularis propria into periureteric or peripelvic (renal sinus) fat
- Tumour invades into the renal stroma
- Tumour invades through the kidney into the perinephric fat
- Tumour invades adjacent structures, specify

HISTOLOGICAL TUMOUR TYPE (Value list from the WHO Classification of Tumours of the Urinary System and Male Genital Organs (2016))
- Urothelial carcinoma
- Squamous cell carcinoma
- Adenocarcinoma
- Tumours of Müllerian type
  - Clear cell carcinoma
  - Endometrioid carcinoma
- Neuroendocrine tumour
  - Small cell neuroendocrine carcinoma
  - Large cell neuroendocrine carcinoma
- Other, specify

Histological sub-type/variant (urothelial carcinoma)
- Not identified
- Present, specify sub-type/variant and percentage (select all that apply)
  - Squamous %
  - Micropapillary %
  - Glandular %
  - Plasmacytoid %
  - Nested %
  - Sarcomatoid %
- Other, specify %

NON-INVASIVE CARCINOMA (select all that apply)
- Not identified
- Carcinoma in situ, flat
  - Focal
  - Multifocal
- Papillary carcinoma, non-invasive
- Other, specify

ASSOCIATED EPITHELIAL LESIONS
- Present, specify
- Not identified

HISTOLOGICAL TUMOUR GRADE (select all that apply)
- Not applicable
- Cannot be determined
  - Urothelial carcinoma
    - Low-grade
    - High-grade
    - Other, specify
  - Squamous cell carcinoma or adenocarcinoma
    - GX: Cannot be assessed
    - G1: Well differentiated
    - G2: Moderately differentiated
    - G3: Poorly differentiated
    - Other, specify

LYMPHOVASCULAR INVASION
- Not identified
- Present
- Indeterminate

MARGIN STATUS
- Cannot be assessed
- Not involved
- Involved
  - Invasive carcinoma (select all that apply)
    - Distal
    - Proximal
    - Soft tissue
    - Other, specify
  - Carcinoma in situ/non-invasive high-grade urothelial carcinoma (select all that apply)
    - Distal mucosal
    - Proximal mucosa
    - Other, specify

REGIONAL LYMPH NODE STATUS
- No regional nodes submitted
- Not involved
- Involved
  - Number of lymph nodes examined
  - Number of positive lymph nodes
  - Number cannot be determined
  - Extranodal spread
    - Present
    - Not identified
  - Size of largest metastasis mm
  - Location of involved lymph nodes, specify
ANCILLARY STUDIES

- Not performed
- Performed, specify

PATHOLOGICAL STAGING (AJCC TNM 8th edition)**

- Primary tumour (pT)
  - TX Primary tumour cannot be assessed
  - T0 No evidence of primary tumour
  - Ta Papillary non-invasive carcinoma
  - Tis Carcinoma in situ
  - T1 Tumour invades subepithelial connective tissue
  - T2 Tumour invades the muscularis
  - T3 For renal pelvis only: Tumour invades beyond muscularis into peripelvic fat or into the renal parenchyma* For ureter only: Tumour invades beyond muscularis into perinephric fat
  - T4 Tumour invades adjacent organs, or through the kidney into the perinephric fat

Regional lymph nodes (pN)

- NX Regional lymph nodes cannot be assessed
- N0 No lymph node metastasis
- N1 Metastasis in a single lymph node, ≤2 cm in greatest dimension
- N2 Metastasis in a single lymph node, >2 cm; or multiple lymph nodes

COEXISTENT PATHOLOGY

- Non-neoplastic renal tissue
  - Not applicable
  - Insufficient tissue
  - No significant pathologic alterations
  - Significant pathologic alterations, specify

Other histopathological features

- Present, specify
- None identified

HISTOLOGICALLY CONFIRMED DISTANT METASTASES

- Not identified
- Indeterminate
- Present, specify site(s)


* Please note, use of terminology is incorrect. Stroma should be substituted for parenchyma.