A guide to Carcinoma of the Renal Pelvis and Ureter (Nephroureterectomy and ureterectomy) Histopathology Reporting

Includes the International Collaboration on Cancer reporting dataset denoted by *

<table>
<thead>
<tr>
<th>Pre-analytical details</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>S1.02</strong> Clinical information provided on request form (complete as narrative or use the structured format below)</td>
<td>Text</td>
</tr>
<tr>
<td><strong>S1.03</strong> Pathology accession number</td>
<td>Text</td>
</tr>
<tr>
<td><strong>S1.04</strong> Principal clinician</td>
<td>Text</td>
</tr>
<tr>
<td><strong>G1.01</strong> Other clinical information received</td>
<td>Text</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Macroscopic findings</th>
<th></th>
</tr>
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<tbody>
<tr>
<td><strong>S2.01</strong> Specimen labelled as</td>
<td>Text</td>
</tr>
<tr>
<td><strong>S2.02</strong> Operative procedure</td>
<td>See p3</td>
</tr>
<tr>
<td><strong>S2.03</strong> Additional specimen(s) submitted</td>
<td>Not submitted, specify</td>
</tr>
<tr>
<td><strong>S2.04</strong> Specimen measurements (Superior to inferior x transverse x anterior to posterior)</td>
<td>_x_x_mm</td>
</tr>
<tr>
<td><strong>S2.05</strong> Tumour focality</td>
<td>Unifocal, Multifocal, Can’t be assessed</td>
</tr>
<tr>
<td><strong>G2.01</strong> Number of tumours</td>
<td>___</td>
</tr>
<tr>
<td><strong>S2.06</strong> Macroscopic tumour site</td>
<td>Indeterminate, No visible tumour, OR Multi-select: Ureter, Renal pelvis, Other, specify</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Macroscopic findings (cont.)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>S2.07</strong> TUMOUR DIMENSIONS</td>
<td>No macro visible tumour OR Can’t be assess’d OR Complete the following...</td>
</tr>
<tr>
<td><strong>G2.02</strong> Additional dimensions (largest tumour)</td>
<td>_x__mm</td>
</tr>
<tr>
<td><strong>G2.03</strong> Gross appearance of tumour(s) (record for each tumour identified)</td>
<td>Multi-select: Polypoid, Fungating, Papillary, Ulcerated, Solid &amp; indurated</td>
</tr>
<tr>
<td><strong>S2.08</strong> Macro extent of invasion</td>
<td>See p3</td>
</tr>
<tr>
<td><strong>S2.09</strong> Macroscopic evidence of margin involvement</td>
<td>Absent, Present, Multi-select: Renal hilar, Perinephric fat, Ureteric, Periureteric</td>
</tr>
<tr>
<td><strong>G2.04</strong> Appearance of uninvolved tissue</td>
<td>Normal, OR Multi-select: Ulcerated, Erythematous, Other, specify</td>
</tr>
<tr>
<td><strong>S2.10</strong> Lymph nodes</td>
<td>Submitted, Not submitted, If submitted, record Site(s) and number of nodes</td>
</tr>
<tr>
<td><strong>S2.11</strong> Block identification key</td>
<td>Text</td>
</tr>
<tr>
<td><strong>G2.05</strong> Other macroscopic comment</td>
<td>Text</td>
</tr>
</tbody>
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<th>Microscopic findings</th>
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<tr>
<td><strong>S3.01</strong> Histological tumour type</td>
<td>See p3</td>
</tr>
<tr>
<td><strong>S3.02</strong> Histological sub-type/variant</td>
<td>Not identified, Present, Multi-select: Squamous, Glandular, Nested, Microcystic, Glandular, Papillary, Plasmacytoid, Sarcomatoid, Other, specify</td>
</tr>
<tr>
<td><strong>G2.06</strong> Macroscopic tumour site</td>
<td>If present, record sub-type/variant &amp; estimated % for each variant</td>
</tr>
</tbody>
</table>
## Microscopic findings (cont.)

### S3.02 Non-invasive carcinoma
Not identified
Indeterminate
OR:
Multi-select:
- Carcinoma in situ, flat
- Papillary ca, non-invasive
- Other, specify

If Carcinoma in situ, flat record if ...

### G3.01 Associated epithelial lesions
Not identified
Present, specify

### S3.03 Histological grade
Not applicable
Cannot be determined

- Urothelial carcinoma
  - Low-grade
  - High-grade
  - Other, specify

- Squamous cell carcinoma or adenocarcinoma
  - GX: Can’t be assessed
  - G1: Well differentiated
  - G2: Moderately differ’d
  - G3: Poorly different’d
  - Other, specify

### S3.04 Micro. extent of invasion
See p3

### S3.05 Microscopic tumour site(s)
Multi-select:
- Renal pelvis, specify
- Ureter, specify
- Kidney, specify
- Pelvicalyceal, specify

### G3.02 Tumour size (max. dimension of the largest tumour)
__mm

### S3.06 Lymphovascular invasion
Not identified
Present
Indeterminate

### S3.07 Margin status
Cannot be assessed
Not involved
Involved

If involved, record involved margins

- Multi-select:
  - Invasive carcinoma
    - Renal hilar
    - Perinephric fat
    - Ureteric
    - Periureteric
    - Distal
    - Proximal
    - Soft tissue
    - Other, specify

- Carcinoma in situ/non-invasive high-grade urothelial carcinoma
  - Distal mucosal
  - Proximal mucosa
  - Other, specify

### S3.08 Regional lymph node status
No reg nodes submitted
Not involved
Involved

If involved, record following elements and consider recording G3.03

- Number of lymph nodes examined
- Number of positive lymph nodes OR
- Number cannot be determined
- Size of largest metastasis
- Location(s) of involved lymph nodes

### G3.03 Extravascular spread
Not identified
Present

### S3.09 Histologically confirmed distant metastases
Not identified
Indeterminate
Present, specify

### G3.04 Coexistent pathology
See p3

### G3.05 Other microscopic comment
Text

### Ancillary test findings

### G4.01 Ancillary studies
Not performed
P’formed, describe

### Synthesis and overview

### S5.01 PATHOLOGICAL STAGING (AJCC TNM 8th EDITION)
See p3

### S5.02 Year and edition of staging system
Text

### G5.01 Diagnostic summary
Include: Operative procedure and any additional specimens, Tumour type with different subtypes specified, Tumour grade, Tumour extent (Level of invasion), Tumour site, Lymphovascular invasion, Surgical margin status (completeness of excision), Lymph node involvement, Tumour stage, Presence of non-invasive carcinoma

### S5.03 Overarching comment
Text

### G5.02 Edition/version number of the RCPA protocol on which the report is based
Text
PATHOLOGICAL STAGING (AJCC 8TH EDITION)

- **m** (multiple primary tumours)
- **r** (recurrent)
- **y** (posttreatment)

**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

**Histological tumour type**

- 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

**Operative procedure**

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

**Macro. extent of invasion**

- No macroscopically visible tumour
- Non-invasive tumour visible
- Cannot be assessed

**Microscopic extent of invasion**

- Cannot be assessed
- No evidence of primary tumour

**Coexistent pathology**

- None identified
- Present, specify

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**Historical note:** The use of terminology is incorrect. Stroma should be substituted for parenchyma.

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