

# 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 \*

Pre-analytical details		
<b>S1.02</b>	<b>Clinical information provided on request form</b> (complete as narrative or use the structured format below)	Text
<b>CLINICAL INFORMATION</b>		
	*Previous history of urinary tract disease or distant metastasis	See p3
	*Previous therapy	See p3
	*Other clinical information	Text
	Clinical extent of disease	Text
	<b>Operative procedure</b>	See p3
	<b>Additional specimen(s) submitted</b>	Not submitted Submitted, <i>specify</i>
<b>S1.03</b>	<b>Pathology accession number</b>	Text
<b>S1.04</b>	<b>Principal clinician</b>	Text
<b>G1.01</b>	Other clinical information received	Text
Macroscopic findings		
<b>S2.01</b>	<b>Specimen labelled as</b>	Text
<b>S2.02</b>	<b>*Operative procedure</b>	See p3
<b>S2.03</b>	<b>*Additional specimen(s) submitted</b>	Not submitted Submitted, <i>specify</i>
<b>S2.04</b>	<b>Specimen measurements</b> (Superior to inferior x transverse x anterior to posterior)	__x__mm
	<b>Length of ureters</b>	Right: __mm Left: __mm
	<b>Measurements of other organs</b> (Record for each other organ submitted)	Specify organ AND __x__mm
<b>S2.05</b>	<b>*Tumour focality</b>	Unifocal Multifocal Can't be asses'd
	If Cannot be assessed, specify why If multifocal, consider recording G2.01	Text
<b>G2.01</b>	Number of tumours	___
<b>S2.06</b>	<b>*Macroscopic tumour site</b>	Indeterminate No visible tumour OR <u>Multi-select:</u> Ureter Renal pelvis Other, <i>specify</i>

Macroscopic findings (cont.)		
<b>S2.07</b>	<b>*TUMOUR DIMENSIONS</b>	No macro visible tumour OR Can't be assess'd OR Complete the following...  Maximum tumour dimension (largest tumour)      __mm
<b>G2.02</b>	<b>*Additional dimensions (largest tumour)</b>	__x__mm
<b>G2.03</b>	Gross appearance of tumour(s) ( <i>record for each tumour identified</i> )	<u>Multi-select:</u> Polypoid Fungating Papillary Ulcerated Solid & indurated
<b>S2.08</b>	<b>*Macro extent of invasion</b>	See p3
<b>S2.09</b>	<b>Macroscopic evidence of margin involvement</b>	Absent Present
	If present, record the margins involved	<u>Multi-select:</u> Renal hilar Perinephric fat Ureteric Periureteric
<b>G2.04</b>	Appearance of uninvolved tissue	Normal OR <u>Multi-select:</u> Ulcerated Erythematous Other, <i>specify</i>
<b>S2.10</b>	<b>Lymph nodes</b>	Submitted Not submitted
	If submitted, record Site(s) and number of nodes	Text & ___
<b>S2.11</b>	<b>*Block identification key</b>	Text
<b>G2.05</b>	<b>Other macroscopic comment</b>	Text

Microscopic findings		
<b>S3.01</b>	<b>*Histological tumour type</b>	See p3
	If urothelial carcinoma record <b>Histological sub-type/variant</b>	
	<b>*Histological sub-type(s)/variant(s)</b>	Not identified Present
	If present, record <b>sub-type/variant &amp; estimated % for each variant</b>	Squamous Glandular Nested Micropapillary Plasmacytoid Sarcomatoid Other, <i>specify</i> & ___% of each

Microscopic findings (cont.)		Microscopic findings (cont.)	
<a href="#">S3.02</a>	<b>*Non-invasive carcinoma</b>	Not identified Indeterminate OR <u>Multi-select:</u> Carcinoma <i>in situ</i> , flat Papillary ca, non-invasive Other, <i>specify</i>	No reg nodes submitted Not involved Involved
	If Carcinoma <i>in situ</i> , flat record if ...	Multifocal Focal	If involved, record following elements and consider recording G3.03 If not involved, record the number of lymph nodes examined
<a href="#">G3.01</a>	<b>*Associated epithelial lesions</b>	Not identified Present, <i>specify</i>	<b>Number of lymph nodes examined</b> _____ <b>Number of positive lymph nodes</b> _____ OR Number cannot be determined
<a href="#">S3.03</a>	<b>*Histological grade</b>	Not applicable Cannot be determined	<b>Size of largest metastasis</b> _____mm <b>Location(s) of involved lymph nodes</b> Text
	<b>Urothelial carcinoma</b>	Low-grade High-grade Other, <i>specify</i>	
	<b>Squamous cell carcinoma or adenocarcinoma</b>	GX: Can't be assessed G1: Well differentiated G2: Moderately differ'd G3: Poorly different'd Other, <i>specify</i>	
<a href="#">S3.04</a>	<b>*Micro. extent of invasion</b>	See p3	<a href="#">G3.03</a> <b>*Extranodal spread</b> Not identified Present
<a href="#">S3.05</a>	<b>Microscopic tumour site(s)</b>	<u>Multi-select:</u> Renal pelvis, <i>specify</i> Ureter, <i>specify</i> Kidney, <i>specify</i> Pelvicalyceal, <i>specify</i>	<a href="#">S3.09</a> <b>*Histologically confirmed distant metastases</b> Not identified Indeterminate Present, <i>specify</i>
<a href="#">G3.02</a>	Tumour size (max. dimension of the largest tumour)	____mm	<a href="#">S3.10</a> <b>*Coexistent pathology</b> See p3
<a href="#">S3.06</a>	<b>*Lymphovascular invasion</b>	Not identified Present Indeterminate	<a href="#">G3.04</a> Other microscopic comment Text
<a href="#">S3.07</a>	<b>*Margin status</b>	Cannot be assessed Not involved Involved	<b>Ancillary test findings</b>
	If involved, record involved margins	<u>Multi-select:</u> <b>Invasive carcinoma</b> • Renal hilar • Perinephric fat • Ureteric • Periureteric • Distal • Proximal • Soft tissue • Other, <i>specify</i>  <b>Carcinoma in situ/ non-invasive high-grade urothelial carcinoma</b> • Distal mucosal • Proximal mucosa • Other, <i>specify</i>	<a href="#">G4.01</a> Ancillary studies Not performed P'formd, describe
			<b>Synthesis and overview</b>
			<a href="#">S5.01</a> <b>*PATHOLOGICAL STAGING (AJCC TNM 8th EDITION)</b> See p3
			<a href="#">S5.02</a> <b>Year and edition of staging system</b> Text
			<a href="#">G5.01</a> Diagnostic summary Text 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
			<a href="#">S5.03</a> <b>Overarching comment</b> Text
			<a href="#">G5.02</a> Edition/version number of the RCPA protocol on which the report is based Text

### S1.02 Previous history of urinary tract disease or distant metastasis

- Information not provided
- No previous history

OR

Select all that apply:

- Non-invasive papillary
- Carcinoma *in situ*, flat
- Invasion into lamina propria
- Muscle invasive disease
- Distant metastasis
- Other, *specify*

### S1.02 Previous therapy

- Information not provided
- No previous therapy

OR

Select all that apply:

- Bacillus Calmette-Guerin (BCG)
- Chemotherapy, intravesical, *specify*
- Chemotherapy, systemic
- Radiation therapy
- Other, *specify*

### S1.02 & S2.02 Operative procedure

Single selection value list:

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

### S2.08 Macro. extent of invasion

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

OR

Select all that apply:

- Invasion into wall
- Invasion into periureteral/peripelvic tissue
- Invasion into renal stroma
- Invasion into perinephric fat
- Involvement of other adjacent organs, *specify*

### S3.04 Microscopic extent of invasion

Single selection value list:

- Cannot be assessed
- No evidence of primary tumour

OR

Select all that apply:

- Papillary carcinoma, non-invasive
- Carcinoma *in situ*, flat
- Tumour invades subepithelial connective tissue (lamina propria)
- Tumour invades the 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*

### S3.01 Histological tumour type

Single selection value list:

- 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*

### S3.10 Coexistent pathology

Select all that apply:

Non-neoplastic renal tissue

- Not applicable
- Insufficient tissue
- No significant pathologic alterations
- Significant pathologic alterations, *specify*

Other histopathological features

- None identified
- Present, *specify*

### S5.01 PATHOLOGICAL STAGING (AJCC 8<sup>TH</sup> 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

\*\*use of terminology is incorrect 110 Stroma should be substituted for parenchyma.

#### 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

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