

# CARCINOMA OF RENAL TUBULAR ORIGIN (excision specimens) Histopathology Reporting Proforma



Includes the  International Collaboration on Cancer reporting dataset denoted by \*

Family name

Given name(s)

Date of birth

Patient identifiers

e.g. MRN, IHI or NHI (please indicate which)

Date of request

**S1.03 Accession number**

Requesting doctor - name and contact details

Indigenous Status

- Aboriginal but not Torres Strait Islander origin  
 Torres Strait Islander but not Aboriginal origin  
 Both Aboriginal and Torres Strait Islander origin  
 Neither Aboriginal nor Torres Strait Islander origin  
 Not stated/inadequately described

## Clinical information

RELEVANT PAST MEDICAL HISTORY

PREDISPOSING FACTORS (INC. GENETIC STATUS)

### PRE-OPERATIVE TREATMENT

- Tumour embolization       Cryoablation  
 Radio frequency ablation  
 External-beam radiation therapy (EBRT)  
 Other, *specify*

RELEVANT FAMILY HISTORY

EXTENT OF DISEASE

PREVIOUS BIOPSY/SURGICAL SPECIMENS

CLINICAL OR DIFFERENTIAL DIAGNOSIS

## LATERALITY

- Left       Right  
 Other eg horseshoe kidney, *specify*

## NATURE OF OPERATION

- Radical nephrectomy       Simple nephrectomy  
 Other, *specify*       Partial nephrectomy

SURGICAL INTENT

- Curative       Palliative

OPERATIVE FINDINGS

## TISSUE REMOVED FOR RESEARCH OR OTHER PURPOSES

- No       Yes      ▶ Details of tissue removed

## NEW PRIMARY LESION OR RECURRENCE

- New primary  
 Recurrence - regional, *describe*

- Recurrence - distant, *describe*

**S1.04 PRINCIPAL CLINICIAN**

G1.01 COMMENTS - record additional comments overleaf

## Macroscopic findings

### S2.01 SPECIMEN LABELLED AS

### G2.01 NATURE OF SPECIMEN

- Fresh  
 Fixed   ▶ Fixative:
- Intact  
 Morcellated

### S2.02 \*SPECIMEN LATERALITY

- Not specified  
 Left                       Right  
 Other eg horseshoe kidney, *specify*

### S2.03 \*OPERATIVE PROCEDURE

- Not specified  
 Radical nephrectomy  
 Simple nephrectomy  
 Partial nephrectomy  
 Other, *specify*

### S2.04 \*ACCOMPANYING/ ATTACHED STRUCTURES

- None submitted  
 Adrenal gland  
 Lymph nodes, *provide details*

- Other organs, *provide details*

### G2.02 \*TISSUE REMOVED FROM SPECIMEN PRIOR TO SUBMISSION

- No   
Yes  ▶ Details of tissue removed

Not stated

### G2.03 KIDNEY DIMENSIONS

 x  x 

### G2.04 LENGTH OF URETER

### LENGTH OF RENAL VEIN

### LENGTH OF RENAL ARTERY

### G2.05 SPECIMEN WEIGHT

### G2.06 ADHERENCE OF RENAL CAPSULE TO VISCERAL SURFACE OF PERIRENAL FAT

- Not identified  
 Present

### G2.07 CORTICAL SURFACE ABNORMALITIES

### G2.08 \*TUMOUR SITE(S)

- Upper pole                       Not provided  
 Mid zone                          Cannot be assessed  
 Lower pole  
 Cortex  
 Medulla  
 Other, *specify*

### S2.05 \*TUMOUR FOCALITY

- Unifocal                          Cannot be assessed  
 Multifocal, *specify no. of tumours (if possible)*

### S2.06 \*MAXIMUM TUMOUR DIMENSION

(If multiple tumours the maximum dimension of the largest five should be recorded.)

Tumour 1

Tumour 2

Tumour 3

Tumour 4

Tumour 5

**S2.07 MACROSCOPIC EXTENT OF INVASION**

- Tumour confined to kidney
- Tumour extends into perinephric tissues
- Tumour extends into renal sinus
- Tumour extends beyond Gerota's fascia
- Tumour extends into major veins (renal vein or its segmental branches, inferior vena cava)
- Tumour extends into pelvicalyceal system
- Tumour extends into ipsilateral adrenal gland
  - Contiguous (pT4)
  - Noncontiguous (M1)
- Tumour extension into other organ(s)/ structure(s), *specify*

**G2.09 APPEARANCE OF CUT SURFACE OF TUMOUR**

**G2.10 ABNORMAL FEATURES OF THE KIDNEY**

**S2.08 \*BLOCK IDENTIFICATION KEY**

|  |
|--|
|  |
|  |
|  |
|  |
|  |

**G2.11 ADDITIONAL MACROSCOPIC COMMENTS**

**Microscopic findings**

**S3.01 \*HISTOLOGICAL TUMOUR TYPE**

*Each tumour type should be separately recorded.*

- Clear cell renal cell carcinoma
- Multilocular clear cell renal cell neoplasm of low malignant potential
- Papillary renal cell carcinoma
  - Type 1
  - Type 2
  - Oncocytic
  - NOS
- Chromophobe renal cell carcinoma
  - Hybrid oncocytic chromophobe tumour
- Collecting duct carcinoma
- Renal medullary carcinoma
- MiT family translocation renal cell carcinoma
  - Xp11 translocation renal cell carcinoma
  - t(6;11) renal cell carcinoma
  - Other, *specify*

- Mucinous tubular and spindle cell carcinoma
- Tubulocystic renal cell carcinoma
- Acquired cystic disease associated renal cell carcinoma
- Clear cell papillary/tubulopapillary renal cell carcinoma
- Hereditary leiomyomatosis and renal cell carcinoma-associated renal cell carcinoma
- Succinate dehydrogenase (SDH) deficient renal carcinoma
- Renal cell carcinoma, unclassified
- Other, *specify*

**S3.02 \*HISTOLOGICAL TUMOUR GRADE - WHO/ISUP**

- Not applicable
- Grade X - Cannot be assessed
- Grade 1 - Nucleoli absent or inconspicuous and basophilic at 400x magnification
- Grade 2 - Nucleoli conspicuous and eosinophilic at 400x magnification, visible but not prominent at 100x magnification
- Grade 3 - Nucleoli conspicuous and eosinophilic at 100x magnification
- Grade 4 - Extreme nuclear pleomorphism and/or multi nuclear giant cells and/or rhabdoid and/or sarcomatoid differentiation

**S3.03 \*SARCOMATOID MORPHOLOGY**

- Not identified  
 Present

**G3.01 \*EXTENT OF SARCOMATOID COMPONENT**

%

**S3.04 \*RHABDOID MORPHOLOGY**

- Not identified  
 Present

**G3.02 \*EXTENT OF RHABDOID COMPONENT**

%

**S3.05 \*NECROSIS**

- Not identified       Cannot be assessed  
 Present  
↓  
 Microscopic coagulative necrosis  
 Macroscopic tumour necrosis

**G3.03 \*EXTENT OF NECROSIS (Applicable to clear cell renal cell carcinoma only)**

%

**S3.06 \*EXTENT OF INVASION**

- Tumour limited to the kidney**

**Tumour spread beyond renal capsule**

- Not identified       Present  
 Cannot be assessed

**Tumour in renal sinus**

- Cannot be assessed  
 Not identified  
 Present in fat  
 Present in vascular spaces  
 Present in fat and vascular spaces

**Tumour extends beyond Gerota's fascia**

- Not identified       Present  
 Cannot be assessed

**Tumour in major veins (renal vein or its segmental branches, inferior vena cava)**

- Not identified       Present  
 Cannot be assessed

**Tumour in pelvicalyceal system**

- Not identified       Present  
 Cannot be assessed

**Tumour in adrenal gland**

- Not provided       Cannot be assessed  
 Not identified  
 Present - direct extension  
 Present - metastasis

**Tumour in other organs/structures**

- Not provided       Cannot be assessed  
 Not identified  
 Present, *specify sites*

**G3.04 \*TUMOUR IN RENAL VEIN WALL**

- Not identified       Present  
 Cannot be assessed

**G3.05 \*LYMPHOVASCULAR INVASION**

- Not identified       Present

**S3.07 \*LYMPH NODES**

**No. of lymph nodes examined**

**No. of positive lymph nodes**

OR  Number cannot be determined

**G3.06 \*EXTRANODAL EXTENSION**

- Not identified       Present  
 Cannot be assessed

**S3.08 \*MARGIN STATUS**

- Cannot be assessed  
 Not involved  
 Involved

*Specify sites (select all that apply)*

- Renal parenchymal margin (partial nephrectomy only)  
 Renal capsular margin (partial nephrectomy only)  
 Perinephric fat margin (partial nephrectomy only)  
 Gerota's fascial margin  
 Renal vein margin  
 Ureteral margin  
 Other, *specify*

**G3.07 DISTANCE FROM TUMOUR TO CLOSEST SURGICAL MARGIN (Applicable to partial nephrectomy specimens only)**

mm

**S3.09 \* COEXISTING PATHOLOGY IN NON-NEOPLASTIC KIDNEY**

- None identified
- Insufficient tissue for evaluation (<5 mm tissue adjacent to the tumour)
- Glomerular disease

Specify type

- Tubulointerstitial disease

Specify type

- Vascular disease

Specify type

- Cyst(s)

Specify type

- Tubular (papillary) adenoma(s)

- Other

Specify

**G3.08 ADDITIONAL MICROSCOPIC COMMENT**

**Ancillary findings**

**G4.01 \* ANCILLARY STUDIES**

- Not performed
- Performed

Specify test and results

**Synthesis and overview**

**S5.01 \* PATHOLOGICAL STAGING (AJCC 8TH EDITION)\*\* (refer adjacent)**

\*Primary tumour (T)

\*Regional lymph nodes (N)

\*Distant metastasis (M)

Not applicable

OR

**S5.02 YEAR AND EDITION OF STAGING SYSTEM**

**G5.01 DIAGNOSTIC SUMMARY**

Include specimen laterality, operative procedure, tumour type, tumour grade, tumour stage, involvement of surgical margins

**S5.03 OVERARCHING COMMENT**

**G5.02 CARCINOMA OF RENAL TUBULAR ORIGIN (EXCISION SPECIMENS) STRUCTURED REPORTING PROTOCOL (2nd Edition 2018)**

**Pathological staging (AJCC 8<sup>TH</sup> Ed)#**

**TNM descriptors (if applicable)**

m - multiple primary tumours at a single site  
 r - recurrent tumours after a disease free period  
 y - classification is performed during or following multimodality treatment

**Primary tumour (pT)**

- TX Primary tumour cannot be assessed
- T0 No evidence of primary tumour
- T1 Tumour ≤ 7 cm in greatest dimension, limited to the kidney
- T1a Tumour ≤ 4 cm in greatest dimension, limited to the kidney
- T1b Tumour > 4 cm but ≤ 7 cm in greatest dimension, limited to the kidney
- T2 Tumour > 7 cm in greatest dimension, limited to the kidney
- T2a Tumour > 7 cm but ≤ 10 cm in greatest dimension, limited to the kidney
- T2b Tumour >10 cm, limited to the kidney
- T3 Tumour extends into major veins or perinephric tissues, but not into the ipsilateral adrenal gland and not beyond Gerota's fascia
- T3a Tumour extends into the renal vein or its segmental branches, or invades pelvicalyceal system, or invades perirenal and/or renal sinus fat but not beyond Gerota's fascia
- T3b Tumour extends into the vena cava below the diaphragm
- T3c Tumour extends into the vena cava above the diaphragm or invades the wall of the vena cava
- T4 Tumour invades beyond Gerota's fascia (including contiguous extension into the ipsilateral adrenal gland)

**Regional lymph nodes (pN)**

- NX Regional lymph nodes cannot be assessed.
- N0 No regional lymph node metastasis
- N1 Metastasis in regional lymph node(s)

**Distant metastasis (pM)**

- M1 Distant metastasis

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