

Invasive Carcinoma of Renal Tubular Origin Histopathology Reporting Guide



Family/Last name	Date of birth	
<input style="width: 90%;" type="text"/>	DD – MM – YYYY	
Given name(s)		
<input style="width: 90%;" type="text"/>		
Patient identifiers	Date of request	Accession/Laboratory number
<input style="width: 90%;" type="text"/>	DD – MM – YYYY	<input style="width: 90%;" type="text"/>

Elements in **black text** are REQUIRED. Elements in **grey text** are RECOMMENDED.

PRE-OPERATIVE TREATMENT

- Tumour embolization Not specified
 Cryoablation
 Radio frequency ablation
 External-beam radiation therapy (EBRT)
 Other, *specify*

SPECIMEN LATERALITY

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

OPERATIVE PROCEDURE

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

ACCOMPANYING/ATTACHED STRUCTURES

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

- Other organs, *provide details*

TISSUE REMOVED FROM SPECIMEN PRIOR TO SUBMISSION

- No Not stated
 Yes, *provide details*

TUMOUR SITE(S)

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

TUMOUR FOCALITY

- Unifocal Cannot be assessed
 Multifocal

Specify number of tumours (if possible)

MAXIMUM TUMOUR DIMENSION

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

Tumour 1	<input style="width: 90%; height: 20px;" type="text"/>	Tumour 4	<input style="width: 90%; height: 20px;" type="text"/>
Tumour 2	<input style="width: 90%; height: 20px;" type="text"/>	Tumour 5	<input style="width: 90%; height: 20px;" type="text"/>
Tumour 3	<input style="width: 90%; height: 20px;" type="text"/>		

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

HISTOLOGICAL TUMOUR TYPE**

(Value list from the World Health Organization Classification of Tumours of the Urinary System and Male Genital Organs, Fourth edition (2016) classification of renal cell tumours and the International Society of Urological Pathology Vancouver classification of renal neoplasia)


**Occasionally more than one histologic type of carcinoma occurs within the same kidney specimen. 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*

SARCOMATOID MORPHOLOGY

- Not identified
- Present

Extent of sarcomatoid component  %

RHABDOID MORPHOLOGY


- Not identified
- Present

Extent of rhabdoid component  %

NECROSIS

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



Extent of necrosis  %
(Applicable to clear cell renal cell carcinoma only)

EXTENT OF INVASION

- Tumour limited to the kidney

Tumour spread beyond renal capsule

- Not identified
- Present
- Cannot be assessed

Tumour in renal sinus

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

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 renal vein wall

- Not identified
- Present
- Cannot be assessed

Tumour in pelvicalyceal system

- Not identified
- Present
- Cannot be assessed

Tumour in adrenal gland

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

Tumour in other organs/structures

- Not provided
- Not identified
- Present, *specify sites*

LYMPHOVASCULAR INVASION

- Not identified
- Present

LYMPH NODES STATUS

Number of lymph nodes examined

Number of positive lymph nodes

OR

- Number cannot be determined

Size of largest focus mm

Extranodal extension

- Not identified
- Present
- Cannot be assessed

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

CO-EXISTING 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

ANCILLARY STUDIES 

- Not performed
- Performed

Specify test and results

PATHOLOGICAL STAGING (TNM 8th edition)## **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)

- Not applicable
- M1 Distant metastasis

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