# **Quiz 1**

1. The kidney parenchyma consists of which two components?
   1. Renal cortex and renal medulla
   2. Renal pyramid and nephrons
   3. Major Calyx and minor calyx
   4. None of the above
2. The layer that encapsulates the kidneys and the adrenal glands is the
   1. Pararenal fat
   2. Renal capsule
   3. Perirenal fat
   4. Gerota’s fascia
3. Which of the following is **NOT** a regional lymph node for kidney?
   1. Paracaval
   2. Paraortic
   3. Renal hilar
   4. Axillary
4. Which of the following is the most common site of distant metastasis for renal cell carcinoma of the kidney?
   1. Renal Pelvis
   2. Contralateral Kidney
   3. Lung
   4. Breast
5. The hilum of the kidney is where which of the following enter and/or exit the kidney (circle all that apply).
   1. Renal vein
   2. Renal artery
   3. Renal pelvis
   4. Vena cava

**Pathology Report**

Final Diagnosis:

Specimen: Left kidney and adrenal gland

* Tumor #1: Renal cell carcinoma with extensive sarcomatoid features
  + Tumor size: 1.7 cm
  + Tumor extension: the tumor extends directly into the adrenal gland
  + Fuhrman Nuclear grade 3.
  + Focal histologic necrotic tissue is present.
* Tumor #2: Renal cell carcinoma, clear cell type
  + Tumor Size: 2.5 cm
  + Tumor extension: the tumor extends into the perisinus adipose tissue.
  + Fuhrman Nuclear grade 2

1. How many primaries are present?
   1. 1 primary
   2. 2 primaries
2. Which Rule did you use to determine the number of primaries?
   1. M1
   2. M9
   3. M8
   4. M10
3. What histology would be assigned?
   1. 1 primary 8312/3 renal cell carcinoma
   2. 1 primary 8255/3 adenocarcinoma with mixed subtypes
   3. 2 primaries Tumor #1 8318/3 sarcomatoid renal cell carcinoma Tumor #2 clear cell renal cell carcinoma
   4. 2 primaries Tumor #1 8312/3 renal cell carcinoma Tumor #2 8310/3 clear cell renal cell carcinoma
4. Which rule did you use to determine the histology?
   1. H3
   2. H5
   3. H6
   4. H11
5. Both incidence and mortality rates of kidney and renal cancers are increasing among men and women, indicating an increase in risk of kidney and renal cancer.
   1. True
   2. False

# Quiz 2

**Clinical History:**

45 year old woman was found to have a left renal mass. CT revealed a 2.5 cm lateral mass in the upper pole of the left kidney. The tumor is highly suspicious for stage I renal cell carcinoma. No lymphadenopathy or metastasis noted. Patient went on to have a laparoscopic nephron-sparing surgery using the da Vinci® robotic system.

**Surgical Pathology**

Specimen: Left renal mass

Gross Description:

* Received is a specimen labeled “left renal mass” and consisting of a portion of renal parenchyma measuring 4 x 5 x 4 cm. Noted on the surface is a 2.6 x 2.4-cm whitish mass. The renal parenchyma surface is inked black. This specimen is serially sectioned revealing a cystic lesion that is at least 1 mm. from the nephrectomy margin.
* Intraoperative Diagnosis:
  + Kidney, left, partial nephrectomy: Renal cell carcinoma, margins negative.

Final Diagnosis:

* Kidney, left, partial nephrectomy:
* Specimen: Left kidney and adrenal gland, right, radical nephrectomy.
* Histologic Tumor Type: renal cell carcinoma, with tubular and clear cell features
* Histologic Tumor Grade: Fuhrman Nuclear Grade II
* Tumor Size: 2.6 x 2.3 CM.
* Extent of Tumor: Tumor confined to the kidney parenchyma. No involvement of the renal capsule.
* Hilar nodes – No metastasis in 3 paracaval lymph nodes
* Hilar blood vessels – No tumor involvement.
* Ureter – No tumor involvement.
* Adrenal – No tumor involvement.

1. What value should be entered into the CT data item?
   1. (blank)
   2. cX
   3. c1a
   4. c1b
2. What value should be entered into the pT data item?
   1. (blank)
   2. pX
   3. p1a
   4. p1b
3. What value should be entered into the cN data item?
   1. c0
   2. c1
   3. p0
   4. p1
4. What value should be entered into the pN data item?
   1. c0
   2. c1
   3. p0
   4. p1
5. What value should be entered into the pM data item?
6. c0
7. c1
8. p0
9. p1
10. What is the clinical stage?
11. I
12. IA
13. II
14. 99
15. What is the pathologic stage?
16. I
17. IA
18. II
19. 99
20. What is the summary stage?
21. Localized
22. Regional by direct extension
23. Regional to lymph nodes
24. Distant
25. What surgery code would be used for the case above?
26. 30 Partial nephrectomy
27. 40 Complete/total/simple nephrectomy
28. 50 Radical nephrectomy
29. 80 Nephrectomy nos
30. What is Surgical Approach for the case above?
31. 1 Robotic assisted
32. 2 Robotic converted to open
33. 3 Endoscopic or laparoscopic
34. 4 Endoscopic or laparoscopic converted to open