

**ASSOCIATION OF DIRECTORS OF ANATOMIC AND SURGICAL PATHOLOGY**  
**Final Anatomic Diagnosis Checklist**

**ADRENAL CORTICAL CARCINOMA and PHEOCHROMOCYTOMA**

(Ver 1.1, 11-03)

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Accession No.: \_\_\_\_\_ Part No(s). \_\_\_\_\_ Date: \_\_\_\_\_

Patient Name: \_\_\_\_\_

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<b>ORGAN,</b>	<b>SITE,</b>	<b>OPERATION</b>
Adrenal gland	Right	Adrenalectomy
Kidney	Left	Nephrectomy

**-Primary Tumor Diagnosis** *Required*

Adrenal Cortical Adenoma  
Adrenal Cortical Carcinoma  
Pheochromocytoma  
Others \_\_\_\_\_

**A. Size of tumor:** *Required* \_\_\_\_\_ cm. x \_\_\_\_\_ cm. x \_\_\_\_\_ cm.

**B. Weight of tumor:** *Required* \_\_\_\_\_ gm.

**C. Extent of tumor:** *Required*

Tumor is confined to the adrenal gland

Tumor extends beyond adrenal gland but does not invade adjacent organs

Tumor invades adjacent organs

**-Margins of Resection:** *Required*

Margins are free of tumor

Tumor is present at the peripheral margins of resection

**-Lymph Nodes:** *Required*

A. Number examined \_\_\_\_\_

B. Number positive \_\_\_\_\_

C. Comment \_\_\_\_\_

*Note: Regional lymph nodes include paracaval, para-aortic, peri-aortic, lateral aortic, and retroperitoneal.*

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**-Additional Tumor Features:**

**A. Blood Vessel Invasion (circle one):** *Required*

Not Identified

Identified (specify: Artery, Vein, Blood Vessel NOS. Intratumoral, Peritumoral)

**B. Lymph Vessel Invasion (circle one):** *Required*

Not Identified

Identified (specify: Intratumoral, Peritumoral)

**C. Mitotic Activity (specify mitotic rate per 50 hpf):** *Required*

**D. Nuclear Atypia (circle one):** *Required*

Mild

Moderate

Marked

**E. Necrosis (circle one):** *Required*

Present

Absent

**F. Comment: (see below):** \_\_\_\_\_  
\_\_\_\_\_

*Note: "Severe nuclear atypia, high mitotic count, vascular invasion, tumor necrosis, and other microscopic features may, in combination, support a diagnosis of adrenal cortical carcinoma over adenoma and should be recorded, but no precise clustering of histologic features is considered diagnostic of malignancy" (1) (for further discussion of histologic parameters predicting biologic behavior, see references 1 and 2).*

**-Additional Findings and Comments:** *Optional*

Adrenal myelolipoma

Adrenal medullary hyperplasia

Adrenal cortical hyperplasia, nodular / diffuse

Adrenal hemorrhage

Adrenal cyst (specify vascular, epithelial lined, pseudocyst)

Renal cortical adenoma (specify size and location): \_\_\_\_\_

Pyelonephritis (specify severity): \_\_\_\_\_

Renal infarcts (specify number or multiple): \_\_\_\_\_

Arterio/arteriolonephrosclerosis (specify severity): \_\_\_\_\_

Other \_\_\_\_\_

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**-Ancillary Studies:** *Optional*

Special stains are performed, the results are as follows:

- A. \_\_\_\_\_
- B. \_\_\_\_\_
- C. \_\_\_\_\_
- D. \_\_\_\_\_

Interpretation \_\_\_\_\_  
\_\_\_\_\_

Immunohistochemical studies are performed, the results are as follows:

- A. \_\_\_\_\_
- B. \_\_\_\_\_
- C. \_\_\_\_\_
- D. \_\_\_\_\_

Interpretation \_\_\_\_\_  
\_\_\_\_\_

**pTN Stage:** *Required*

*Note: This staging is applicable to adrenal cortical carcinoma only.*

**A. Primary Tumor:**

**pT1** Tumor  $\leq$  5 cm, no invasion

**pT2** Tumor  $>$  5 cm, no invasion

**pT3** Tumor of any size, locally invasive but not involving adjacent organs

**pT4** Tumor of any size with invasion of adjacent organs

**B. Regional Lymph Nodes:**

**pN0** Negative regional nodes

**pN1** Positive regional nodes

**C. Distant Mestastasis:**

**pMX** Distant metastasis cannot be assessed

**pM0** No distant metastasis

**pM1** Distant metastasis

References:

1. Lack E. Tumors of the Adrenal Gland and Extra-Adrenal Paraganglia. AFIP Fascicle No. 19, Third Series. American Registry of Pathology, Washington D.C. 1997.
2. Weiss LM. Comparative histologic study of 43 metastasizing and nonmetastasizing adrenocortical tumors. *Am J Surg Pathol* 1984;8(3):163-9.