

ADRENAL CHARACTERIZATION ON CT

<u>Exam Type</u>	<u>Criteria for Adrenal Adenoma</u>	<u>Calculation</u>	<u>Pathologic Basis</u>
Unenhanced CT	HU ≤10	ROI in Adrenal	Lipid content
Unenhanced, Dynamic, 15 min delayed	<u>Absolute</u> Washout ≥60%	$\frac{(\text{HU dynamic} - \text{HU delay})}{(\text{HU dynamic} - \text{HU Unenhanced})} \times 100$	Perfusion & Washout
Dynamic & 15 min delayed (no unenhanced CT)	<u>Relative</u> washout ≥40%	$\frac{(\text{HU Dynamic} - \text{HU delay})}{(\text{HU Dynamic})} \times 100$	Perfusion & Washout
Dynamic CT (No unenhanced/delayed CT)	≥10% pixels ≤ 0HU	ROI then pixel histogram	Lipid Content

References:

1. Mayo-Smith WW. CT Characterization of Adrenal Masses. Letter to the Editor, Radiology 2003 226(1):289-290.
2. Bae KT et al. Adrenal Masses : CT Characterization with the Histogram Analysis Method. Radiology 2003 228; 735-42