TEST CHANGE

Renin Activity

0070105, RENIN

Specimen Requirements:	
Patient Preparation:	Collect midmorning after patient has been sitting, standing, or walking for at least 2 hours and seated for 5-15 minutes. Refer to the Additional Technical Information for specific patient preparation recommendations.
Collect:	Lavender (EDTA) or pink (K2EDTA~~Pink (K 2 EDTA~~). Do not collect in refrigerated tubes.
Specimen Preparation:	Separate from cells ASAP or within 2 hours of collection. Transfer 2 mL plasma to an ARUP standard transport tube~~Standard Transport Tube~~ and freeze immediately. (Min: 1.2 mL) Storage at refrigerated temperatures may cause falsely elevated results. Do not collect in refrigerated tubes.
Transport Temperature:	CRITICAL FROZEN. Separate specimens must be submitted when multiple tests are ordered.
Unacceptable Conditions:	Serum. Specimens collected in citrate, heparin, or oxalate. Hemolyzed specimens.
Remarks:	
Stability:	After separation from cells: Ambient: Unacceptable~~6 hours~~; Refrigerated: Unacceptable; Frozen: 1 month
Methodology:	Quantitative Enzyme-Linked Immunosorbent Assay (ELISA)
Note:	Refer to the Additional Technical Information for Endocrine Society recommendations for patient preparation, specimen collection, medications for hypertension control during confirmatory testing for primary aldosteronism, and factors that may lead to false-positive or false-negative aldosterone-renin ratio (ARR) results.
CPT Codes:	84244
New York DOH Approval Status:	This test is New York DOH approved.

Interpretive Data:

Plasma renin activity measures enzyme ability to convert angiotensinogen to angiotensin I and is limited by the availability of angiotensinogen. Plasma renin activity is not an accurate indicator of enzyme activity when angiotensinogen is decreased.

~~This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.~~

Reference Interval:

Test Number	Components			Reference Interval
	~~Adult, normal sodium diet~~	~~Children, normal sodium diet, supine:~~	~~Children, normal sodium diet, upright:~~	
	~~Supine: 0.2-1.6 ng/mL/hr~~	~~Newborn (1-7 days): 2.0-35.0 ng/mL/hr~~	~~0-3 years: Not Available~~	
	~~Upright: 0.5-4.0 ng/mL/hr~~	~~Cord blood: 4.0-32.0 ng/mL/hr~~	~~4-5 years: Less than or equal to 15 ng/mL/hr~~	
		~~1-12 months: 2.4-37.0 ng/mL/hr~~	~~6-10 years: Less than or equal to 17 ng/mL/hr~~	
		~~13 months-3 years:1.7-11.2 ng/mL/hr~~	~~11-15 years: Less than or equal to 16 ng/mL/hr~~	
		~~4-5 years:1.0-6.5 ng/mL/hr~~		
		~~6-10 years: 0.5-5.9 ng/mL/hr~~		
		~~11-15 years: 0.5-3.3 ng/mL/hr~~		
Renin Activity				

Deleted Cells

Inserted Cells

Age	Supine (ng/mL/hr)	Upright (ng/mL/hr)
Newborn (1-7 days)	2.0-35.0	Not Available
1-12 months	2.4-37.0	Not Available
13 months-3 years	1.7-11.2	Not Available
4-5 years	1.0-6.5	Less than or equal to 15
6-10 years	0.5-5.9	Less than or equal to 17
11-15 years	0.5-3.3	Less than or equal to 16
Adult	0.2-1.6	0.5-4.0