

 <b>University Health™</b>	Policy #: Rad Proc 13.14.17
SUBJECT: CT Urography 6.17	Effective: 10/2013 Reviewed: 03/07/2017
APPROVED BY: <b>Body Imaging Medical Director</b>	Page 1 of 3

**Purpose:** To provide computed tomography staff with the required protocol for performing CT Urography

**Scope:** All adult patients 18 years and older.

**Clinical Indication:** Renal mass, hematuria

**Patient Preparation:** Clear liquid diet (6 hours prior to exam)

**Orientation:** Feet first

**Breathing:** Inspiration

**Oral Contrast:** 2 16oz Cups Water

**IV Contrast per Weight:** 1ml/lb or 2ml/kg not to exceed 150ml injected @ 4ml/sec

**Coverage:** Dome of diaphragm through ischial tuberosities

**Anatomic Reference:** Xiphoid process;

**Scan Delay:** Fixed Delay relative to start injection time

**Group 1: Non-contrast – Dome of diaphragm to iliac crest**

Scan Mode	Thickness Speed Pitch	Table Interval	SFOV	kVp	Auto mA/ Noise Index	Prep Time (sec)	Recon Type
LS 16 0.8 sec Helical Full	5 27.50 1.375:1	5	Large	120	80-440 11.5	N	Standard
VCT 0.8 sec Helical Full	5 55.00 1.375:1	5	Large	120	80-600 11.5	N	Standard
AS 64 0.5 sec Helical	5 1	5	360	120	Ref MAS 250	N	Standard

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**Group 2: Contrast kidneys– Top to bottom of kidneys**

**\*\*\*Leave FOV open to include whole abdomen\*\*\*** Give 250ml bag normal saline IV

Scan Mode	Thickness Speed Pitch	Table Interval	SFOV	kVp	mA Auto mA/ Noise Index	Prep Time (sec)	Recon Type
LS 16 0.8 sec Helical	2.5 27.50 1.375:1	2.5	Large	120	80-440 11.5	90 sec.	Standard
VCT 64 0.8 sec Helical Full	2.5 55.00 1.375:1	2.5	Large	120	80-600 11.5	90 sec	Standard
AS 64 0.5 sec	3 1	3	380	120	Ref MAS 250	90 sec	Standard

**Group 3: 10 Minute delays – Top of kidneys through Ischial tuberosities**

Scan Mode	Thickness Speed Pitch	Table Interval	SFOV	kVp	mA Auto mA/ Noise Index	Prep Time (sec)	Recon Type
LS 16 0.8 sec Helical	2.5 27.50 1.375:1	2.5	Large	120	80-440 11.5	10 min	Standard
VCT 64 0.8 sec Helical Full	2.5 55.00 1.375:1	2.5	Large	120	80-600 11.5	10 min	Standard
AS 64 0.5 sec	3 1	3	380	120	Ref MAS 250	10 min	Standard

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**Algorithm: Recon 1 & 2 Standard**

**Reformation: Sagittal and Coronal reformations of the venous phase**

**Network: Recon 1 (5mm) to PACS. Recon 2 (1.25) auto transmit to AWSERV**

**Notes: Auto mA must be on and mA table checked prior to scanning. Full bladder (clamp Foley catheter).**