

# UT Southwestern Department of Radiology

**Protocol Name:** CT Urography

**Orderable Name:** CT UROGRAM ABDOMEN AND PELVIS W AND WO IV CONTRAST

Adult Only

**Epic Button:** CTU W&WO

CTDIvol < 60 mGy  
DLP < 12500 mGycm

**Indications:** Hematuria, bladder mass, transitional cell carcinoma or urothelial carcinoma of the bladder, ureter, or kidney (NOT RCC)

**# Acquisitions:** 3-4

Active Protocol

<p><b>Oral Contrast:</b> Water</p> <p><b>H2O Variant:</b></p> <p><b>Oral Effervescent Granules on Table?</b> <input type="checkbox"/></p> <p><b>Regime:</b> 12 oz given 30 min prior to exam.  12 oz given on the table</p>	<p><b>IV Contrast:</b> <a href="#">Link to Contrast Information</a></p> <p><b>Rate (mL/sec):</b> P3T</p> <p><b>Volume (mL):</b> P3T</p> <p><b>IV Access:</b> Power injection: 20g or larger strongly preferred (if 22g use reduce rate to 2.5 mL/sec)</p> <p><b>Notes:</b> Max saline bolus to syringe capacity</p>	<p><b>Other Contrast:</b> None</p>	<p><b>Airway</b> Full inspiration</p> <hr/> <p><b>Other Notes</b> Consult body habitus kVp selection chart.  If the patient has a Foley catheter or PCN tube, clamp before beginning the study (unclamp after completed).  If the patient is on dialysis, call radiologist prior to exam.</p>
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Last Change: 2/1/2023

Last Review: 1/17/2024

Links: [kVp Body Chart](#) [General Statements](#)

<b>Special Instructions</b>		Roll pt 360 degrees before next series (rescort).	Send volume to TeraRecon.	*Repeat scan in prone position only if the ureters were not adequately opacified; confirm need with radiologist first.  Send volume to TeraRecon.
<b>Acq # / Series Name</b>	<b>1</b> Noncontrast	<b>2</b> Nephrogram	<b>3</b> 10 Min Delayed	<b>4*</b> 15 Min Delayed
<b>Phase Timing</b>		100 Sec Delayed	10 Min Delayed	15 Min Delayed
<b>Acquisition Protocol</b>	<a href="#">Abdominal CTU</a>	<a href="#">Abdominal CTU</a>	<a href="#">Abdominal CTU</a>	<a href="#">Abdominal CTU</a>
<b>Coverage</b>	Top of kidneys thru symphysis	Diaphragm thru symph	Top of kidneys thru symphysis	Top of kidneys thru symphysis
<b>FOV</b>	Whole body	Whole body	Whole body	Whole body
<b>Algorithm</b>	Soft Tissue	Soft Tissue	Soft Tissue	Soft Tissue
<b>Axial Recons</b>	3 mm (2.5mm GE)	3 mm (2.5mm GE)	3 mm (2.5mm GE)	3 mm (2.5mm GE)
<b>Other Planar Recons</b>	2 mm coronal and sagittal	2 mm coronal and sagittal	2 mm coronal and sagittal	2 mm coronal and sagittal
<b>MIP Recons</b>				
<b>†DECT Philips</b>		mono E 50, SBI	mono E 50, SBI	mono E 50, SBI
<b>†DECT Siemens</b>		mono E 50	mono E 50	mono E 50
<b>†PC-CT Siemens</b>		mono E 60	mono E 60	mono E 60

† When dual energy (DE) or photon counting (PC) CT is used