

CT Urogram

GE- 1107

Maximum CTDI 70

Indication: Painless hematuria, renal masses < 3cm, ureteral diversion, ureteral injury, risk for urothelial tumor, planning for percutaneous lithotripsy

PT Prep: Have patient drink 1,000 ml of water 30 minutes prior to getting on the CT table, do not let patient urinate prior to scan. Please check that urinary bladder is moderately distended on non-contrast phase before injecting IV contrast. If not, wait 5-10 minutes then scan with IV contrast. No oral contrast.
IV contrast – Yes (follow MCR IV contrast dosing guidelines)

Series 1: Scouts AP & LAT – Supine “O” at Xiphoid Process S20 to I550

Series 2: Unenhanced – Scan from Top of Kidneys to Symphysis Pubis

	128 slice	32 slice	64 slice	64 slice w/ASIR 30%
Noise Level	16.40	16.40	16.40	16.40
Interval	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Axial/Helical Thickness	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Pitch	1.375:1	1.375:1	1.375:1	1.375:1
Speed mm/rotation	55	55	55	55
Detector Rows				
Detector Configuration				
Beam Collimation	40m	40mm	40 mm	40mm
Kv/mA	Auto mA – if large pt. use manual & maximize mA	Auto mA – if large pt. use manual & maximize mA	Auto mA – if large pt. use manual & maximize mA	Auto mA – if large pt. use manual & maximize mA
Scan Type	Helical Full 0.7sec	Helical Full 0.7sec	Helical Full 0.7 sec	Helical Full 0.7sec

Series 3: Nephrographic Phase: IV contrast @ 3cc/sec (follow MCR IV contrast dosing guidelines)

Delay: 90 seconds – Scan from top of kidneys through symphysis pubis

	128 slice	32 slice	64 slice	64 slice w/ASIR 30%
Noise Level	18.23	16.36	9.19	9.19
Interval	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Axial/Helical Thickness	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Pitch	1.375:1	1.375:1	1.375:1	1.375:1
Speed mm/rotation	55	55	55	55
Detector Rows				
Detector Configuration				
Beam Collimation	40mm	40 mm	40 mm	40 mm
KV/mA	Auto mA if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA
Scan Type	Helical Full 0.7sec	Helical Full 0.7sec	Helical Full 0.7 sec	Helical Full 0.7sec

Series 4: Excretory Phase: **Delay: 480 seconds** – Scan from top of kidneys through symphysis pubis

	128 slice	32 slice	64 slice	64 slice w/ASIR 30%
Noise Level	18.23	16.36	9.19	9.19
Interval	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Axial/Helical Thickness	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Pitch	1.375:1	1.375:1	1.375:1	1.375:1
Speed mm/rotation	55	55	55	55
Detector Rows				
Detector Configuration				
Beam Collimation	40 mm	40 mm	40 mm	40 mm
KV/mA	Auto mA if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA
Scan Type	Helical Full 0.7 sec	Helical Full 0.7 sec	Helical Full 0.7 sec	Helical Full 0.7

Networking/ PACs: Send scouts
 Send series 2,3,4 Standard Soft Tissue Algorithm
 Recon and send Nephrographic series in lung and bone algorithm
 Recon and send MPR's of **all series**
 Send thinnest images from series 4 to 3D workstation

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Original Date: 4-8-04

Approved by: Dr. Songmen MCR

Revised Date: 11/9/04, 1/11/10, 12/8/10, 4/17/13, 12/15/15, 02/14/18, 07/27/21, 1/30/24

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