

# 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.

No oral contrast.

IV contrast – Yes (follow IV contrast administration guidelines)

20g to 18 g peripheral IV needed for contrast administration

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

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Series 3: Nephrographic Phase: 100 cc of IV contrast @ 3cc/sec (Contrast dose can adjusted based on CrCl).  
**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

Original Date: 4-8-04 Approved by: Dr.Reh fuss, MCR \_\_\_\_\_

Revised Date: 11-9-04, 1-11-10 12/8/10 4/17/13 12/15/15 02/14/18 Page 2 of 2

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