

# CT Dedicated Renal Protocol without Pelvis

Maximum CTDI\_\_\_75

GE- 6011-1

Indication: Renal masses, nephrectomy follow-up

PT Prep: 1,000 ml of water **30 minutes** prior to getting on the table  
IV contrast – Yes (follow MCR IV contrast dosing guidelines)

Series 1: Scouts AP & LAT – Supine “O” at Xiphoid Process S20 to I350

Series 2: Unenhanced – Scan from Top of Kidneys to Iliac Crest

	<b>750 HD (128) CT2</b>	<b>Optima 660 (32) OVIC</b>	<b>Optima 660 CT1</b>	<b>VCT 64 CT3</b>
Noise Level	16.40	12.00	11.60	11.60
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	0.984:1	0.984:1	0.984:1	0.984:1
Speed mm/rotation	39.37	39.37	39.37	39.37
Detector Rows				
Detector Configuration				
Beam Collimation	40 mm	40 mm	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 0.8 sec	Helical Full 0.8 sec	Helical Full 0.8 sec	Helical Full 0.8 sec

Original Date: 4-8-04

Approved by: Dr. Songmen, MCR \_\_\_\_\_

Revised Date: 11/9/04, 1/11/10, 12/8/10, 04/17/13, 12/15/2015, 2/28/18, 07/27/21, 1/30/24

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Series 3: Corticomedullary Phase – IV contrast per MCR contrast dosing guidelines @ 3cc/sec

Delay: 30 seconds – Scan from top of kidneys to iliac crest

	750 HD (128) CT2	Optima 660 (32) OVIC	Optima 660 CT1	VCT 64 CT3
Noise Level	15.00	12.00	11.60	11.60
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	0.984:1	0.984:1	0.984:1	0.984:1
Speed mm/rotation	39.37	39.37	39.37	39.37
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 0.8 sec	Helical Full 0.8 sec	Helical Full 0.8sec	Helical Full 0.8 sec

Series 4: Nephrographic Phase

Delay: 80 seconds – Scan from top of kidneys to iliac crest

	750 HD (128) CT2	Optima 660 (32) OVIC	Optima 600 CT1	VCT 64 CT3
Noise Level	15.00	12.00	11.60	11.60
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	0.984:1	0.984:1	0.984:1	0.984:1
Speed mm/rotation	39.37	39.37	39.37	39.37
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 0.8 sec	Helical Full 0.8 sec	Helical Full 0.8sec	Helical Full 0.8 sec

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Series 5: Excretory Phase

**Delay: 240 seconds** – Scan from top of kidney to iliac crest

	<b>128 slice</b>	<b>32 slice w/ASIR</b>	<b>64 slice</b>	<b>64 slice w/ASIR 30%</b>
Noise Level	15.00	12.00	11.60	11.60
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	0.984:1	0.984:1	0.984:1	0.984:1
Speed mm/rotation	39.37	39.37	39.37	39.37
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 0.8 sec	Helical Full 0.8 sec	Helical Full 0.8 sec	Helical Full 0.8 sec

**Networking/ PACs:** Send scouts  
Send series 2-5 Standard Soft Tissue Algorithm  
Recon and send Nephrographic phase/series 4 series only in Bone Algorithm  
Send MPR's all series  
Record DLP in PACS comments

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