

# 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

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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

	<b>750 HD (128) CT2</b>	<b>Optima 660 (32) OVIC</b>	<b>Optima 660 CT1</b>	<b>VCT 64 CT3</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 0.8sec	Helical Full 0.8 sec

Series 4: Nephrographic Phase

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

	<b>750 HD (128) CT2</b>	<b>Optima 660 (32) OVIC</b>	<b>Optima 600 CT1</b>	<b>VCT 64 CT3</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 0.8sec	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 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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