

# Renal mass 64 GE

Indications	Renal mass seen on other imaging, flank pain		
Diagnostic Task	Detect masses of kidney		
Scan mode	Helical		
Position/Landmark	Head first-Supine Xiphoid S50-I500		
Topogram	AP 120kV 20mA Lat 120kV 40mA		
kVp/Reference mass	120kv Auto mA (300-700)		
Rotation time/pitch	0.5/0.984:1		
Detector Configuration	64x0.625		
Table Speed/Increment	39.37		
Dose reduction	Noise Index 15.86		
Allowed CTDI ranges*	7mGy-50mGy		
XR29 Dose Notification value	50mGy		
Helical Set #1 non contrast	body	thickness	recon
	recon part	spacing	algorithm destination
	1 abdomen	2.5mmx 2.5mm	standard pacs
Helical Set#2 40sec	body	thickness	recon
	recon part	spacing	algorithm destination
	1 abdomen	2.5mmx 2.5mm	standard pacs
	2 sag abdomen	2mmx2mm	standard pacs
	3 coronal abdomen	2mmx2mm	standard pacs
Helical Set #3 120sec	body	thickness	recon
	recon part	spacing	algorithm destination
	1 abdomen	2.5mmx 2.5mm	standard pacs
	2 sag abdomen	2mmx2mm	standard pacs
	3 coronal abdomen	2mmx2mm	standard pacs
Scan start/end location	1cm superior to the diaphragm		
for all helical sets	iliac crest		
IV contrast volume/rate	75ml < 200lbs, 100ml 200-250lbs, 125ml>250lbs isovue 370 4cc/sec		
	Performed as directed by a supervising radiologist		
Scan delay	none/40sec/120sec		
	Approximate Values for CTDIvol		
	Patient size	weight(kg)	weight(lbs) CTDIvol(mGy)
	SMALL	50-70	110-155 10-17
	AVERAGE	70-90	155-200 15-25
	LARGE	90-120	200-265 22-35
NOTE*	*The AAPM recommended NEMA XR29 Dose Notification Value for an adult torso is 50mGy. Dose Notification levels less than the AAPM recommended can be set. The maximum CTDI vol should match the dose notification value. Exams with CTDI vol values less than the minimum allowed range should not be performed unless approved by a radiologist.		

