

Renal Mass GO ALL

Indications	Renal mass seen on other imaging, flank pain					
Diagnostic Task	Detect masses of kidney					
Scan mode	Helical					
Position/Landmark	2cm superior to xiphoid/Inspiration					
Topogram	AP 1100kV 15mA					
kVp/Reference mass	130kv 99mas					
Rotation time/pitch	0.5/0.8					
Detector Configuration	32x0.7					
Table Speed/Increment	17.92					
Dose reduction	CareDose 4D					
Allowed CTDI ranges*	7mGy-50mGy					
XR29 Dose Notification value	50mGy					
Helical Set #1 none contrast		body	thickness			recon
	recon	part	spacing	kernel	window	destination
	1	abdomen	2mmx 2mm	Br40	abdomen	pacs
Helical Set #2 40second		body	thickness			recon
	recon	part	spacing	kernel	window	destination
	1	abdomen	2mmx 2mm	Br40	abdomen	pacs
	2	cor	2mmx2mm	Br40	abdomen	pacs
	3	sag	2mmx2mm	Br40	abdomen	pacs
Helical Set #3 120second		body	thickness			recon
	recon	part	spacing	kernel	window	destination
	1	abdomen	2mmx 2mm	Br40	abdomen	pacs
	2	cor	2mmx2mm	Br40	abdomen	pacs
	3	sag	2mmx2mm	Br40	abdomen	pacs
Scan start/end location	1cm superior to diaphragm					
for both helical sets	iliac crest					
IV contrast volume/rate	75ml < 200lbs, 100ml 200-250lbs, 125ml>250lbs isovue 370 4cc/sec					
Scan delay	Performed as directed by a supervising radiologist					
	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.

