

# Renal Mass 16 Emotion

<b>Indications</b>	Renal mass seen on other imaging, flank pain					
<b>Diagnostic Task</b>	Detect masses of kidney					
<b>Scan mode</b>	Helical					
<b>Position/Landmark</b>	2cm superior to xiphoid/Inspiration					
<b>Topogram</b>	AP 25mA 130kV					
<b>kVp/Reference mass</b>	130kv 120mas/110kv if pt under 140lbs					
<b>Rotation time/pitch</b>	0.6/0.8					
<b>Detector Configuration</b>	16x1.2					
<b>Table Speed/Increment</b>	15.36					
<b>Dose reduction</b>	CareDose 4D					
<b>Allowed CTDI ranges*</b>	7mGy-50mGy					
<b>XR29 Dose Notification value</b>	50mGy					
<b>Helical Set #1 non contrast</b>	recon	body part	thickness spacing	kernel	window	recon destination
	1	abdomen	2mmx 2mm	31medium smooth	mediastinum	pacs
<b>Helical Set #2 40sec</b>	recon	body part	thickness spacing	kernel	window	recon destination
	1	abdomen	2mmx 2mm	31medium smooth	mediastinum	pacs
	2	coronal abdomen	2mmx2mm	31medium smooth	mediastinum	pacs
	3	sag abdomen	2mmx2mm	31medium smooth	mediastinum	pacs
<b>Helical Set #3 120sec</b>	recon	body part	thickness spacing	kernel	window	recon destination
	1	abdomen	2mmx 2mm	31medium smooth	mediastinum	pacs
	2	coronal abdomen	2mmx2mm	31medium smooth	mediastinum	pacs
	3	sag abdomen	2mmx2mm	31medium smooth	mediastinum	pacs
<b>Scan start/end location for all helical sets</b>	1cm superior to diaphragm iliac crest					
<b>DFOV</b>	40cm decrease appropriately					
<b>IV contrast volume/rate</b>	75ml < 200lbs, 100ml 200-250lbs, 125ml>250lbs isovue 370 4cc/sec					
<b>Scan delay</b>	Performed as directed by a supervising radiologist					
	none/40sec/120sec					
<b>Approximate Values for CTDIvol</b>						
	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		
<b>NOTE*</b>	*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.					

