Renal Mass 16 GE

Indications	Renal mass seen on other imaging, flank pain
Diagnostic Task	Detect masses of kidney
Scan mode	Helical
Position/Landmark	Head first-Supine S25-I500
Topogram	AP 120kV 10mA Lat 120kV 20mA
kVp/Reference mass	120kv Smart mA (75-440)
Rotation time/pitch	0.8/1.375:1
Detector Configuration	16x1.25
Table Speed/Increment	27.5
Dose reduction	Noise Index 15.86
Allowed CTDI ranges*	7mGy-50mGy
XR29 Dose Notification value	50mGy

Helical Set #1 non contrast	recon	body part	thickness spacing	kernel	window	recon destination
	1	abdomen	2.5mmx 2.5mm	standard		pacs

Helical Set#2 40sec	recon	body part	thickness spacing	algorithm	recon 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	recon	body part	thickness spacing	kernel	window	recon 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 diaphragm
for all 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.

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Approved by Dr Ellermeier/Mollard