

Liver 4 phase 16 GE

Indications	New liver lesion with hx of hepatocellular dysfunction or cirrhosis, New HCC, Baseline Cirrohsis, f/u HCC status post TACE or ablation, F/u met disease post ablation				
Diagnostic Task	Detect masses, abscess				
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 con	recon	body part	thickness spacing	algorithm	recon destination
	1	abdomen	2.5mmx 2.5mm	standard	pac
Helical Set #2 40sec	recon	body part	thickness spacing	algorithm	recon destination
	1	abdomen	2.5mmx 2.5mm	standard	pac
	2	sag abdomen	2mmx2mm	standard	pac
	3	coronal abdomen	2mmx2mm	standard	pac
Helical Set #3 70sec	recon	body part	thickness spacing	algorithm	recon destination
	1	abdomen	2.5mmx 2.5mm	standard	pac
	2	sag abdomen	2mmx2mm	standard	pac
	3	coronal abdomen	2mmx2mm	standard	pac
Helical Set #4 5 min delay	recon	body part	thickness spacing	kernel	window recon destination
	1	abd	2.5mmx 2.5mm	standard	pac
	2	sag abdomen	2mmx2mm	standard	pac
	3	coronal abdomen	2mmx2mm	standard	pac
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				
	noncon/40sec-arterial/ 70sec-venous/5min				
	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.

