

Liver 3 phase 16 Emotion

Indications	For New liver lesion, follow up-hcc, adenoma, FNH, hypervascular mets, cholangiocarcinoma						
Diagnostic Task	Detect masses, abscess						
Scan mode	Helical						
Position/Landmark	2cm superior to xiphoid/Inspiration						
Topogram	AP 25mA 130kV						
kVp/Reference mass	130kv 120mas/110kv if pt under 140lbs						
Rotation time/pitch	0.6/0.8						
Detector Configuration	16x1.2						
Table Speed/Increment	15.36						
Dose reduction	CareDose 4D						
Allowed CTDI ranges*	7mGy-50mGy						
XR29 Dose Notification value	50mGy						
Helical Set #1 40 sec delay		body	thickness				recon
	recon	part	spacing	kernel	window		destination
	1	abd	2mmx 2mm	31medium smooth	mediastinum		pac
	2	coronal abdomen	2mmx2mm	31medium smooth	mediastinum		pac
3	sag abdomen	2mmx2mm	31medium smooth	mediastinum		pac	
Helical Set #2 70sec		body	thickness				recon
	recon	part	spacing	kernel	window		destination
	1	abd	2mmx 2mm	31medium smooth	mediastinum		pac
	2	coronal abdomen	2mmx2mm	31medium smooth	mediastinum		pac
3	sag abdomen	2mmx2mm	31medium smooth	mediastinum		pac	
Helical Set #3 5min		body	thickness				recon
	recon	part	spacing	kernel	window		destination
	1	abd	2mmx 2mm	31medium smooth	mediastinum		pac
	2	coronal abdomen	2mmx2mm	31medium smooth	mediastinum		pac
3	sag abdomen	2mmx2mm	31medium smooth	mediastinum		pac	
Scan start/end location	1cm superior to diaphragm						
for both helical sets	iliac crest						
DFOV	40cm decrease appropriately						
IV contrast volume/rate	75ml < 200lbs, 100ml 200-250lbs, 125ml>250lbs isovue 370 4cc/sec						
Scan delay	Performed as directed by a supervising radiologist						
	40sec-arterial/ 70sec-venous/5min						
	WITH WATER PREP AND IV CONTRAST						
	Approximate Values for CT DIvol						
	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.

