

Liver 3 phase 16 GE

Indications	For New liver lesion, follow up-hcc, adenoma, FNH, hypervascular mets, cholangiocarcinoma			
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 40sec	recon	body part	thickness spacing	recon destination
	1	abdomen	2.5mmx 2.5mm	standard pacs
	2	sag abdomen	2mmx2mm	standard pacs
	3	coronal abdomen	2mmx2mm	standard pacs
Helical Set #2 70sec	recon	body part	thickness spacing	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 5 min delay	recon	body part	thickness spacing	kernel window recon destination
	1	abd	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 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			
	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.			

