

# Liver 4 phase 64 Sensation

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	2cm superior to xiphoid/Inspiration					
Topogram	AP 50mA 120kV					
kVp/Reference mass	120kv 200mas/100kv if pt under 140lbs					
Rotation time/pitch	0.5/0.8					
Detector Configuration	24x1.2					
Table Speed/Increment	23.04					
Dose reduction	CareDose 4D					
Allowed CTDI ranges*	7mGy-50mGy					
XR29 Dose Notification value	50mGy					
Helical Set #1 noncon	recon	body part	thickness spacing	kernel	window	recon destination
	1	abd	2mmx 2mm	31medium smooth	mediastinum	pac
Helical Set #2 40sec	recon	body part	thickness spacing	kernel	window	recon 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 70sec	recon	body part	thickness spacing	kernel	window	recon 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 #4 5min	recon	body part	thickness spacing	kernel	window	recon 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					
	Performed as directed by a supervising radiologist					
Scan delay	noncon/40sec-arterial/ 70sec-venous/5min					
	WITH WATER PREP AND IV CONTRAST					
	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		200-250		22-33	

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.

