

# Liver 4 phase+Pelvis 16 Sensation

<b>Indications</b>	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					
<b>Diagnostic Task</b>	Detect masses, abscess					
<b>Scan mode</b>	Helical					
<b>Position/Landmark</b>	2cm superior to xiphoid/Inspiration					
<b>Topogram</b>	AP 120kV 50mA					
<b>kVp/Reference mass</b>	120kv 160mas/100kv if pt under 140lbs					
<b>Rotation time/pitch</b>	0.5/0.75					
<b>Detector Configuration</b>	16x0.75					
<b>Table Speed/Increment</b>	9					
<b>Dose reduction</b>	CareDose 4D					
<b>Allowed CTDI ranges*</b>	7mGy-50mGy					
<b>XR29 Dose Notification value</b>	50mGy					
<b>Helical Set #1 noncon</b>	recon	body part	thickness spacing	kernel	window	recon destination
	1	abd	2mmx 2mm	31medium smooth	mediastinum	pac
<b>Helical Set #2 40sec</b>	recon	body part	thickness spacing	kernel	window	recon destination
	1	abd	2mmx 2mm	31medium smooth	mediastinum	pac
	2	thin abd	1mmx.8mm	31medium smooth	mediastinum	for mpr
	2x2 coronal and sag abd reformats from helical set #1, recon 2					
<b>Helical Set #3 70sec</b>	recon	body part	thickness spacing	kernel	window	recon destination
	1	abd/Pelvis	2mmx 2mm	31medium smooth	mediastinum	pac
	2	thin abd/pel	1mmx.8mm	31medium smooth	mediastinum	for mpr
	2x2 coronal and sag abd reformats from helical set #2, recon 2					
<b>Helical Set #4 5min</b>	recon	body part	thickness spacing	kernel	window	recon destination
	1	abd	2mmx 2mm	31medium smooth	mediastinum	pac
	2x2 coronal and sag abd reformats from helical set #3, recon 2					
<b>Scan start</b>	1cm superior to diaphragm					
<b>End location</b>	NC,40sec and 5min delay-iliac crest//// 70sec lesser trochanters					
<b>IV contrast volume/rate</b>	75ml < 200lbs, 100ml 200-250lbs, 125ml>250lbs isovue 370 4cc/sec					
<b>Scan delay</b>	Performed as directed by a supervising radiologist					
	non con/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	200-265	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.

