Liver 4 phase 16 Sensation

Indications	New liver lesion with hx of hepatocelluar 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 120kV 50mA					
kVp/Reference mass	120kv 160mas/100kv if pt under 140lbs					
Rotation time/pitch	0.5/0.75					
Detector Configuration	16x0.75					
Table Speed/Increment	9					
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	pacs
Helical Set #2						
40sec	recon	body part	thickness spacing	kernel	window	recon destination
	1	abd	2mmx 2mm	31medium smooth	mediastinum	pacs
	2	thin abd	1mmx.8mm	31medium smooth	mediastinum	for mpr
	2x2 coronal and sag abd	reformats from helical set #1, recon 2				
Helical Set #3						
70sec	recon	body part	thickness spacing	kernel	window	recon destination
	1	abd	2mmx 2mm	31medium smooth	mediastinum	pacs
	2	thin abd	1mmx.8mm	31medium smooth	mediastinum	for mpr
	2x2 coronal and sag abd	reformats from helical set #2, recon 2				
Helical Set #4						
5min	recon	body part	thickness spacing	kernel	window	recon destination
	1	abd	2mmx 2mm	31medium smooth	mediastinum	pacs
	2x2 coronal and sag abd	reformats from helical set #3, recon 2				
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					
	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

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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.