

Liver 4 phase Siemens GO ALL

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 110kV 15mA							
kVp/Reference mass	130kv 99mas							
Rotation time/pitch	0.5/0.8							
Detector Configuration	32x0.7							
Table Speed/Increment	17.92							
Dose reduction	CareDose 4D							
Allowed CTDI ranges*	7mGy-50mGy							
XR29 Dose Notification value	50mGy							
Helical Set #1 noncon			body	thickness				recon
	recon		part	spacing	kernel	window		destination
	1	abd		2mmx 2mm	Br40	abdomen		pacs
Helical Set #2 40sec			body	thickness				recon
	recon		part	spacing	kernel	window		destination
	1	abd	axial	2mmx 2mm	Br40	abdomen		pacs
	2	abd	Cor	2mmx 2mm	Br40	abdomen		pacs
	3	abd	Sag	2mmx 2mm	Br40	abdomen		pacs
Helical Set #3 70sec			body	thickness				recon
	recon		part	spacing	kernel	window		destination
	1	abd	axial	2mmx 2mm	Br40	abdomen		pacs
	2	abd	Cor	2mmx 2mm	Br40	abdomen		pacs
	3	abd	Sag	2mmx 2mm	Br40	abdomen		pacs
Helical Set #4 5min			body	thickness				recon
	recon		part	spacing	kernel	window		destination
	1	abd	axial	2mmx 2mm	Br40	abdomen		pacs
	2	abd	Cor	2mmx 2mm	Br40	abdomen		pacs
	3	abd	Sag	2mmx 2mm	Br40	abdomen		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							
	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.

