

HAIP (Hepatic Artery Infusion Pump)

Position/Landmark	Feet first supine
Scout	Diaphragm (above the dome of the liver) to lesser trochanters 
Scan coverage	Diaphragm to pubis. Top Down, Dual Scout (with arms up for correct dose modulation)
Respiratory Phase	Inspiratory
Scan Type	Helical
IV access	18g or 20g
IV contrast	100mL OMNI 350 @ 4.0 or 5.0mL/sec
PO Prep	None
BUILD 3Ds RECONS	3D of Hepatic arterial anatomy to include the celiac and all branches and the proximal SMA and any hepatic arterial variants
Reason For Exam	Evaluate vascular anatomy for HAIP placement

Scan Settings – CT HAIP (Same for all phases unless noted otherwise)

	Siemens SOMATOM Force	Philips iCT/Ingenuity	Canon Aquilion ONE Vision
kV Setting:	CAREkV Ref kV= 120	120	120

mA/mAs/TCM Setting:	CAREdose4D QRM = 147, Dose Slider Settings at 3 for non con, 7 for art and ven phases	DoseRight DRI = 19, Liver DRI Boost +3	SureExposure3D (SD=11.5)
Iterative Reconstruction Setting:	Admire Strength 3	iDose 3	AIDR 3D Standard

Scan and Recon Instructions - HAIP (Hepatic Artery Infusion Pump)	
1.	Non-contrast axial Diaphragm through Iliac Crest. (Blue box) - Axial 5mm x 2.5mm (soft tissue) - Coronal 5mm x 2.5mm (soft tissue) - Sagittal 5mm x 2.5mm (soft tissue)
2.	Bolus injection: ROI in the Aorta at the level of the Hepatic Artery
3.	Hepatic Arterial Diaphragm through Iliac Crest. (Blue box) - Axial 3mm x 1.5mm (soft tissue) - Coronal 3mm x 1.5mm (soft tissue) - Sagittal 3mm x 1.5mm (soft tissue) - Coronal 3mm x 1.5mm MIP - Sagittal 3mm x 1.5mm MIP
4.	Portal Venous phase Diaphragm through the Pubis <u>90 second delay.</u> (Red box) - Axial 5mm x 2.5mm (soft tissue) - Coronal 5mm x 2.5mm (soft tissue) - Sagittal 5mm x 2.5mm (soft tissue)