

Inpatient UH Dual Energy Guidance Document

Document Purpose: To provide guidance to UH CT technologists for deciding which patients should receive priority for Dual Energy (DE) scanning on the Siemens Force scanner.

Category 1 – Dual Energy Required:

Section	Protocol	Indications	Details
Neuro	Noncontrast Head CT	Post thrombectomy	DE noncontrast head CT
	Noncontrast Head CT	Hemorrhage vs. calcification	DE noncontrast head CT
	Noncontrast Head CT	Contrast vs. blood	DE noncontrast head CT
MSK	Any extremity	Gout	DE extremity gout protocol Elevate extremity off CT table
Body	CT Abd/Pel w/wo contrast	GI Bleed	**Siemens Force <130 lbs – Use DE SM 131-200 lbs – Use DE MED 201-300 lbs – Use DE LG >300 lbs – Use single energy **No limitations on PCCT

Category 2 – Dual Energy Strongly Preferred:

Section	Protocol	Indications	Details
Neuro	Spine without	Hardware	DE spine metal protocol
	Spine without	Gout	DE spine gout protocol
	Spine without	Fracture	DE spine bone marrow protocol
	CTA head only CTA neck only CTA head/neck	Any except stroke	DE on arterial phase
	Soft tissue neck with	Neck mass or cancer	DE neck with
	CT face without	Hardware or dental amalgam	DE face metal protocol
Chest	CTA Chest (PE)	Suspected PE	DE CTA PE protocol If patient is unable to hold their breath, use Chest Turbo Flash Protocol
Body	CTA/CTV Ischemia PANCREAS 2 PHASE Abd/Pe; Liver 2 Phase Abd/Pel Liver 3 Phase Abd/Pel Liver 4 Phase		**Siemens Force <130 lbs – Use DE SM 131-200 lbs – Use DE MED 201-300 lbs – Use DE LG >300 lbs – Use single energy
Combo	CAP CTA/CTV Ischemia CAP Pancreas 2 Phase CAP Liver 2 Phase CAP Liver 3 Phase CAP Liver 4 Phase		**No limitations on PCCT
MSK	Any extremity	Hardware	DE extremity metal protocol

***Any abdominal exams that are placed on Siemens should be Dual Energy.**

*** Any of these exams that are on this list and are placed on Siemens should be Dual Energy.**

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