

# UH Inpatient CT Guidance Document

**Document Purpose:** To provide guidance to UH CT technologists for deciding which patients should receive priority for Photon Counting and Dual Energy CT imaging at North Pavilion.

## Naeotom Alpha Required:

| Section | Protocol     | Indications                    | Details |
|---------|--------------|--------------------------------|---------|
| Cardiac | Coronary CTA | Coronary stent                 |         |
|         | TAVR         | Post-surgery / TAVR thrombosis |         |

## Force Required:

| Section | Protocol            | Indications       | Details |
|---------|---------------------|-------------------|---------|
| Neuro   | Noncontrast Head CT | Post thrombectomy | DE      |
| MSK     | Any extremity       | Gout              | DE gout |

## Naeotom Alpha or Force Required:

| Section | Protocol            | Indications                  | Details |
|---------|---------------------|------------------------------|---------|
| Neuro   | Noncontrast Head CT | Hemorrhage vs. calcification | DE      |
|         | Noncontrast Head CT | Contrast vs. blood           | DE      |
| Cardiac | Coronary CTA        | Routine                      |         |
| Chest   | HRCT                | ILD exacerbation             |         |
| Abdomen | CTA/CTV Ischemia    | Ischemic bowel               | DE      |

## Naeotom Alpha / Force Strongly Preferred:

| Section | Protocol  | Indications                | Details   |
|---------|---|----------------------------|---|
| Neuro   | Spine without   | Hardware                   | DE MAR  |
|         | Spine without   | Gout                       | DE gout   |
|         | Spine without   | Fracture                   | DE bone marrow  |
|         | CTA head only<br>CTA neck only<br>CTA head/neck   | Any except stroke          | DE arterial phase   |
|         | Soft tissue neck with   | Neck mass or cancer        | DE  |
|         | CT face without   | Hardware or dental amalgam | DE MAR  |
| Chest   | CTA Chest (PE)  | Suspected PE               | DE Turbo Flash  |
| Body    | Pancreas 2 Phase<br>Abd/Pel Liver 2 Phase<br>Abd/Pel Liver 3 Phase<br>Abd/Pel Liver 4 Phase |                            | <130 lbs – Use DE SM<br>131-200 lbs – Use DE MED<br>201-300 lbs – Use DE LG<br>>300 lbs – Use single energy |
| Combo   | CAP Pancreas 2 Phase<br>CAP Liver 2 Phase<br>CAP Liver 3 Phase<br>CAP Liver 4 Phase         |                            |   |
| MSK     | Any extremity   | Hardware                   | DE MAR  |

**\* All abdominal exams on the Siemens Naeotom or Force should be scanned as Dual Energy.**

Hope King- CT Compliance Specialist X/XX/2024

David Gauntt PhD- CT Physicist X/XX/2024

Ashley Thomas- Senior Quality Management Analyst/Educator X/XX/2024

Andrew Smith MD PhD – CT Modality Chief 1/16/2024