Siemens Trauma Body Post Contrast 08/26/2021

*Labs should be obtained from the emergency department*

Scan Parameters:

Intravenous contrast at the discretion of the Radiologist

**Patient Positioning**:

* Both arms raised above the head for optimal image quality.
* If only one arm can be raised, secure the opposing arm along the patient’s side
* If both arms are unable to be raised, secure the arms along the patient’s side

**Post contrast**- To include above apices through symphysis pubis

**Delay**- (*Delay time is dependent on the urgency induced by the patient condition)*

 To include above diaphragm through bladder

***(Below Parameters are defined by a Siemens Definition AS 64, please adjust your Siemens scanner accordingly)***

**CTDI: ≤ 25 mGy**

**Quality Reference mAs: 200**

**Pitch: 1.0**

**CARE Dose4D: ON**

**Detector Rows: 64**

**Detector Configuration 0.6**

**CARE kV: 120 (Optimize slider 7)**

**Rotation time: 0.5**

**Reconstruction Parameters:**

***(Below Parameters are defined by a Definition AS 64, please adjust your scanner accordingly)***

***Include the following reconstructions when a Thoracic and Lumbar Spine are ordered***

***Focused DFOV***

**Axial Soft Tissue Thoracic Spine**

2.5 mm slice thickness

2.5 mm slice increment

DFOV 15 cm

Kernel: I41f medium

Window: Spine

SAFIRE: 2

**Axial Bone Thoracic Spine**

2.5 mm slice thickness

2.5 mm slice increment

DFOV 15 cm

Kernel: B70s Sharp

Window: Osteo

SAFIRE: 0

**Thoracic Spine** **Sagittal Coronal MPR**

1.25 mm slice thickness

1.25 mm slice increment

Kernel: B70s Sharp

Window: Osteo

SAFIRE: 0

**Thoracic Spine** **Coronal MPR**

1.25 mm slice thickness

1.25 mm slice increment

Kernel: B70s Sharp

Window: Osteo

SAFIRE: 0

**Axial Soft Tissue Lumbar Spine**

2.5 mm slice thickness

2.5 mm slice increment

DFOV 15 cm

Kernel: I41f medium

Window: Spine

SAFIRE: 2

**Axial Bone Lumbar Spine**

2.5 mm slice thickness

2.5 mm slice increment

DFOV 15 cm

Kernel: B70s Sharp

Window: Osteo

SAFIRE: 0

**Lumbar Spine Sagittal MPR**

1.25 mm slice thickness

1.25 mm slice increment

Kernel: B70s Sharp

Window: Osteo

SAFIRE: 0

**Lumbar Spine Coronal MPR**

1.25 mm slice thickness

1.25 mm slice increment

Algorithm: Bone

Window: Bone

**Post Contrast**

**Recon 1: Axial Soft Tissue through the entire scan range**

5 mm slice thickness

5 mm slice increment

Kernel: I41f medium

Window: Abdomen

SAFIRE: 2

**Recon 2: Axial Lung through the entire scan range**

5 mm slice thickness

5 mm slice increment

Kernel: I71f very sharp ASA

Window: Lung

SAFIRE: 0

**Recon 3: (reformat set)**

**Axial Bone Recon of the Chest used for 3D Ribs:**

1.0 mm slice thickness

0.5 mm slice increment

Kernel: B70s Sharp

Window: Osteo

SAFIRE: 0

**\*** 3D Ribs – use recon 3 to create a 3D Volume Rendered rotation and 3D Bone Window rotation of the ribs. Each series will have approx. 24 images in a Left to Right rotation.

**Recon 4: Coronal Body**

2 mm slice thickness

2 mm slice increment

Kernel: I41f medium

Window: Abdomen

SAFIRE: 2

**Recon 5: Axial Delay**

5 mm slice thickness

5 mm slice increment

Kernel: I41f medium

Window: Abdomen

SAFIRE: 2

**Sternum Recon\***

**Sagittal MPR of the Chest**

2 mm slice thickness

2 mm slice increment

Kernel: B70s Sharp

Window: Osteo

SAFIRE: 0

**Axial Spine Recon\***

**Without Order**

Sagittal MPR entire spine

2 mm slice thickness

2 mm slice increment

Kernel: B70s Sharp

Window: Osteo

SAFIRE: 0