

PE CT

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CTA: inject at least 4 ml/sec; preferably 5 ml/sec with saline flush.

\*Axial Apex-to-Base; 1.25 mm slice thickness; 35 cm DFOV (display FOV)

Axial 2.5 mm slice thickness; full FOV; soft tissue algorithm

Axial 2.5 mm slice thickness; full FOV; lung algorithm

\*Time for both Pulmonary Arteries & Thoracic Aorta

Additional Reconstructions:

Coronal MPR

Rotating MIP centered on Main Pulmonary Artery

Dissection

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Axial NON-CONTRAST 2.5 mm slice thickness; full FOV; soft tissue algorithm

CTA: inject at least 4 ml/sec, preferably at 5 ml/sec with saline flush

\*Axial Apex-to-Base; 1.25 mm slice thickness; 35 mm DFOV (display FOV)

Axial 2.5 mm slice thickness; full FOV; soft tissue algorithm

Axial 2.5 mm slice thickness; full FOV; lung algorithm

\*Time for Thoracic Aorta

Additional Reconstructions:

Sagittal Oblique MIP

Coronal MPR

Routine Non-pulm Chest CT

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Axial 2.5 mm slice thickness; full FOV; soft tissue algorithm  
Axial 2.5 mm slice thickness; full FOV; lung algorithm

Additional Reconstructions:  
Coronal MPR

Routine Pulm Chest CT

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Axial 2.5 mm slice thickness; full FOV; soft tissue algorithm

Axial 2.5 mm slice thickness; full FOV; lung algorithm

High Res:

Axial 1.25 mm slice thickness @ 20 mm intervals; additional non-helical  
acquisition at end expiration; lung algorithm

Additional Reconstructions:

Coronal MPR

CCTA prospective

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CAC:

2.5 mm slice thickness; DFOV = 25 cm

CTA: inject at least 5 ml/sec; preferably 6 ml/sec with saline flush

18 g iv access: right antecubital vein

Prospective triggering (ie. GE: Snapshot Pulse)

Reconstruct:

0.625 slice thickness

DFOV: ~25 mm

phases: 3-5 phases within prospective triggering window

Postprocess:

1. CAC score

2. Vessel tracking for:

a. Left Main

b. LAD

c. LCx

d. RCA

3. Send over at least one MIP or 3D of the heart

CCTA retro

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CAC:

2.5 mm slice thickness; DFOV = 25 cm

CTA: inject at least 5 ml/sec; preferably 6 ml/sec with saline flush  
18 g iv access: right antecubital vein

Retrospectively Reconstructed Helical  
Reconstruct:

0.625 mm (GE) or 0.5 mm (Toshiba)

DFOV: ~25 mm

Phases:

GE: 5-95% @ 10% intervals

Toshiba: 0-90% @ 10% intervals

Postprocess:

1. CAC score
2. LVEF (Vitrea or TeraRecon or GE)
3. Vessel tracking for:
  - a. Left Main
  - b. LAD
  - c. LCx
  - d. RCA
4. Send over at least one MIP or 3D of the heart

Calcium Scoring CT

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DFOV: 25 cm

Post-process:

Provide Agatston Calcium score for:

Left Main

LAD

LCX

RCA

Total

Include in data provided for comparison to MESA database\*:

Age

Gender

Ethnicity (Caucasian, African American, Hispanic, Chinese)

\*Multi-Ethnic Study of Atherosclerosis