Cardiac CTA for ED Patient with Chest Pain

Patient Flow Protocol

Patient must meet stated criteria for Cardiac CTA

- Patient with chest pain felt to be low to intermediate pretest likelihood of having coronary ischemia as a cause of their chest pain
- No increased cardiac enzymes
- No acute EKG changes
- No arrhythmia
- Creatinine level < 1.8.
- IV access
  - 18g preferred, 20g min

Order of location preference:

- Rt AC
- Rt mid forearm
- Lt AC
- Lt mid forearm

All other locations are unacceptable for contrast bolus delivery.
Other lines or catheters must be approved by the Cardiac Imaging Team or the radiologist/resident on call.

Contraindications for Cardiac CTA

- Inability to hold breath or cooperate
- Cardiac CTA performed within the last year
- Pregnancy
- History of severe contrast reaction
- Arrhythmia
- Renal insufficiency
- Multiple myeloma
- Sickle cell anemia
- Pheochromocytoma

ED will contact CT charge technologist by phone

The ED will verify the patient information listed above and provide the following:
- Pt Name
- MR Number
- Age
- Sex
- History
- Heart Rate
- IV access location and size
- Serum Creatinine level

CT will verify the availability of the Aquilion One or the Aquilion 64.
ED will then administer 100mg oral beta blocker

The ED will report to CT the time that the beta blocker was given.
The Cardiac CTA should be done 1 hour after the patient receives oral beta blocker.
The CT charge tech will give transport instructions.

The Cardiac CTA will be done and the patient returned to the ED

The Cardiac CTA will be performed following the ED Chest Pain CT protocol.
The CT technologist will alert the resident on call upon completion of the scan.
The resident may be called at any time if questions arise.

For Cardiac CTA studies completed between the hours of 0800 - 1600, Monday through Friday, the report will be available within 1 hour of the scan.

For Cardiac CTA studies completed between the hours of 1600 - 0800, Monday through Friday, the report will be available after 0800 hrs.

For Cardiac CTA studies completed between Friday 1600hrs through Monday 0800hrs, the report will be available after 0800 hrs on Monday.