
Diagnostic Services-Radiology

SUBJECT/TITLE: **Protocol for Adult
CTA of Head with contrast media
CTA of Neck with contrast media
CTA of head and Neck with contrast media**

I. Purpose:

Allow radiology technologist to order and administer IV contrast media

A. Target population: patients scheduled for CTA head, CTA neck, CTA head and neck

B. Criteria

- Evaluate for aneurysm
- Evaluate for arterial venous malformation
- Evaluate for vascular occlusions
- Evaluate for vasospasm
- Rule out carotid stenosis
- Rule out carotid or vertebral dissection
- Evaluate vessel relationship to tumors

II. Clinical Assessment/ Screening

A. Allergies: iodinated contrast media

B. Contraindications

- estimated glomerular filtration rate (eGFR) less than 30 mL/min
- pregnancy or suspected pregnancy
- patient has previous adverse drug reaction and has not received pre-medication

C. Previous adverse reactions to iodinated contrast media: The ordering provider must place premedication order as outlined in [Intravenous and Intraosseous Contrast Administration Policy DS-R-05.53](#)

D. The pre-contrast-administration checks should be performed as outlined in [Intravenous and Intraosseous Contrast Administration Policy DS-R-05.53](#))

E. 20 gauge Peripheral Ante cube IV or 22g. Diffusics is required

III. Details of order

A. 20g or larger or 22g Diffusics peripheral IV must be placed.

B. The radiology technologist will place an order in the patient's EHR using the order mode "per protocol."

1. The technologist will protocol the exam on the Radiology protocol list using the order mode "per protocol" choosing the appropriate protocol from the protocol list.

- Neu=>CTA Circle of Willis Head
- Neu=>CTA circle of Willis and Neck
- Neu=> CTA Neck

2. Subsequently, the order for contrast media will be placed: Iopamidol 370 mg I/mL (Isovue-370)

a. FORCE Scanner:

- FORCE scanner: Iopamidol 370 mg I/mL (Isovue-370) 50 ml IV push at 4 ml/second by power injector, followed by 50ml of NaCl 0.9% (saline) IV push at 4 ml/second by power injector

b. 64 and 128 Slice Scanners:

- Iopamidol 370 mg I/mL (Isovue-370) 70 ml IV push at 4 ml/second by power injector, followed by 60ml of NaCl 0.9% (saline) IV push at 4 ml/second by power injecto


IV. Documentation

- A. Staff utilizing protocol must document an order to initiate the protocol in the patient's medical record per PC-PCI-05.53.
- B. Assigned protocol will be documented on the Radiology order for the procedure.
- C. Staff will document the contrast administration in the Radiology order questions.


V. References:

Iopamidol injection (Isovue -200, -250, -300, -370). Monroe Township, NJ: Bracco Diagnostics Inc. 2017 Apr. [Intravenous and Intraosseous Contrast Administration Policy DS-R-05.53](#)

VI. Approved by:

Date 9-15-19


Director: CT Neuro Radiology
Vice Chair

Date 9-9-19


Manager, CT

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