## Patient Information

1. \*\*Study ID number:
2. \*\*Date and time of study:
3. \*\*Scan purpose (Select all that apply):

Diagnostic

Post-treatment

Monitoring

Other, specify \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Technical Information

1. \*Imaging modality (Select all that apply):

DSA

MRA

CTA

CBCT

1. \*\*\*Digital Subtraction Angiography (DSA)
   1. Site of access:

Brachial  Femoral

Radial  Other

* 1. Selective injections (Select all that apply in table below and side):

Technical Information Table

| Injection Site | Side |
| --- | --- |
| Common Carotid | Right  Left  Bilateral  N/A – Not present |
| Internal Carotid | Right  Left  Bilateral  N/A – Not present |
| Vertebral | Right  Left  Bilateral  N/A – Not present |
| Subclavian | Right  Left  Bilateral  N/A – Not present |

1. \*\*Magnetic Resonance Angiography (MRA): (Select all that apply)

Head (Time of Flight - TOF)

Neck (TOF)

Contrast enhanced Head and Neck

Magnetic Resonance Venography (MRV) with contrast

Magnetic Resonance Venography (MRV) without contrast

Computer Tomography Venography (CTV)

1. \*\*Computer Tomography Angiography (Select all that apply):

Head

Neck

Computer Tomography Venography (CTV)

1. Read type (Select all that apply):

Local read

Local report

Local – Site

Central

Central read

Other, specify

1. Reader blinded to clinical data:

Yes

No

Unknown

1. Study technically satisfactory:

Yes

No

Unknown

Not applicable

## Findings

1. Arterial findings: Findings, Cause, Symptomology:
   1. CCA origin:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. CCA to bifurcation:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. ICA at origin:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. C1 cervical:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. C2 petrous:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. C3 lacerum:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. C4 cavernous:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. C5 clinoidal:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. C6 – ophthalmic to PCOM:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. C6 – PCOM to terminus:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. A1:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. A2:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. M1 proximal to striate:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. M1 distal to striate:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. M2 single:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. M2 multiple:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. M3 single:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. M3 multiple:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. M4 single:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. M4 multiple:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. Vertebral origin:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. Vertebral - cervical:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. Vertebral – intracranial proximal to PICA:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. Vertebral – distal to PICA:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. Basilar – distal to AICA:

: Findings Table

|  |  |
| --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High |

* 1. Basilar - mid:

: Findings Table

|  |  |
| --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High |

* 1. Basilar – proximal to AICA:

: Findings Table

|  |  |
| --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High |

* 1. PCOM:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. P1:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. P2:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. P3:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. SCA:

:Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. AICA:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

* 1. PICA:

: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Findings | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized | Normal  Occlusion  Aneurysm  Stenosis  AVM  Not visualized |
| Cause | Atherosclerotic  Embolic  Vasospasm  Other  Unknown | Atherosclerotic  Embolic  Vasospasm  Other  Unknown |
| Symptomology | Symptomatic  Asymptomatic  Indeterminate | Symptomatic  Asymptomatic  Indeterminate |
| \*\*Level of Confidence | Low  Moderate  High | Low  Moderate  High |

## Aneurysm Details

1. Shape/pathology of aneurysm:

Saccular

Fusiform

Dissecting

1. \*\*Location of aneurysm:

Cavernous

Persistent trigeminal

Medial paraclinoid

Lateral paraclinoid

Ophthalmic

Superior hypophyseal

Posterior communicating

Anterior choroidal

Internal carotid artery bifurcation

Middle cerebral artery bifurcation

Anterior communicating

Pericallosal

Posterior inferior cerebellar artery

Superior cerebellar

Basilar apex

Other

1. \*\*Dome size of aneurysm (mm):
2. \*\*Neck size of aneurysm (mm):
3. Presence of daughter lobes or aneurysm irregularity:

Yes

No

Unknown

1. \*\*Aneurysm morphology type:

Regular

Bleb

Daughter-sac, multilobed aneurysm

1. \*\*Largest height/largest neck diameter for each aneurysm:
2. Presence of mural thrombus or partial thrombosis in aneurysm:

Yes

No

Unknown

1. Degree of stenosis:
2. Presence of 3D reconstruction of aneurysm:

Yes

No

Unknown

## Endovascular Treatment

1. Wall opposition for stents or flow diverters:

Good

Poor

Unknown

1. \*\*Occlusion percentage of aneurysm:
2. \*\*Raymond-Roy Occlusion Classification:

Complete occlusion

Dog ear

Residual neck

Residual aneurysm

1. Occlusion of parent or branch vessel related to aneurysm:

Yes

No

Unknown

## \*\*\*CFD: Volumetric

1. Mean kinetic energy measurement of aneurysm:
2. Mean velocity measurement of aneurysm (cm/sec):
3. Mean aneurysm shear rate:
4. Mean aneurysm vorticity:
5. Mean viscous dissipation:
6. Vortex coreline length (cm):

## CFD: Surface Factors

1. Mean wall shear stress of aneurysm (dyne/cm2):
2. Maximum wall shear stress (dyne/cm2):
3. Minimum wall shear stress (dyne/cm2):
4. \*\*\*Shear concentration index:
5. \*\*\*Percentage of aneurysm under low WSS:
6. \*\*\*Mean oscillatory shear stress

## CFD: Hemodynamic Factors

1. \*\*\*Mean inflow rate of aneurysm (ml/sec):
2. \*\*\*Inflow concentration index:

## General Instructions

This CRF contains data that would be collected when an imaging study is performed using angiography to examine the blood vessels of the body. There are separate sections to record arterial findings.

Important note: A subset of the data elements included on this CRF Module is considered Core (i.e., strongly recommended for stroke clinical studies to collect if imaging studies are performed), Supplemental – Highly Recommended and Exploratory, as indicated by asterisks below:

\*Element is classified as Core

\*\* Element is classified as Supplemental – Highly Recommended

\*\*\*Element is classified as Exploratory

The remaining data elements are Supplemental and should only be collected if the research team considers them appropriate for their study.

## Specific Instructions

Please see the Data Dictionary for definitions for each of the data elements included in this CRF Module.

The CRF includes all instructions available for the data elements at this time. More detailed instructions will be added in Version 2.0 of this CRF Module.