

Procedure Information for Vascular Intervention

Physician \_\_\_\_\_ Fellow ID/Second Operator \_\_\_\_\_

Procedure Date \_\_\_\_\_ Start Time \_\_\_\_\_ Procedure End Date \_\_\_\_\_ End Time \_\_\_\_\_

 Status of Procedure  Elective  Urgent  Emergent

Labs Pre Procedure

Pre Creatinine \_\_\_\_\_ mg/dl ND

Pre Hemoglobin \_\_\_\_\_ g/dl ND

Pre BNP \_\_\_\_\_ pg/mL ND

Pre Troponin Y / ND

I \_\_\_\_\_ Units \_\_\_\_\_ No

I HS \_\_\_\_\_ Units \_\_\_\_\_ No

T \_\_\_\_\_ Units \_\_\_\_\_ No

T HS \_\_\_\_\_ Units \_\_\_\_\_ No

Labs Post Procedure

Peak Creatinine \_\_\_\_\_ mg/dl ND

Nadir Hemoglobin \_\_\_\_\_ g/dl ND

<u>Medication During Procedure</u>	Pre	During	Post	C/I	Pre	During	Post
Aspirin					Saline Infusion		
Clopidogrel (Plavix)					Saline <1 hr		
Prasugrel (Effient)					Saline 1-3 hrs		
Ticagrelor (Brilinta)					Saline 3-6 hrs		
Atropine					Saline >6 hrs		
IV / IA Nitroglycerin					Lactated Ringer's Infusion		
IV Heparin/Unfractionated Heparin					LR <1 hr		
Protamine					LR 1-3 hrs		
Bivalirudin (Angiomax)					LR 3-6 hrs		
Thrombolytics (TPA /TNK /rPA)					LR >6 hrs		
Sodium Bicarbonate					Other Hydration Infusion		
					Other <1 hr		
					Other 1-3 hrs		
					Other 3-6 hrs		
					Other >6 hrs		

Patient History

Significant Valve Disease Y / N

 MI/MR

 MS

 AI

 AS

Mechanical Aortic or Mitral Valve Y / N

Angina CCS Class III or IV within 6 weeks Y / N

Peripheral Arterial Disease (PAD) Y / N

Home O2 Therapy Y / N

Major surgery planned within next 8 weeks

 Cardiac

 Vascular

 Other

Previous Neck Radiation Y / N

Previous Neck Surgery (other than CEA) Y / N

Tracheostomy Present Y / N

Previous Laryngeal Nerve Palsy Y / N

 Right

 Left

**Cardiac History**
**Two or More Major Coronary Arteries with Stenosis  $\geq$ 70% (LAD, LCX, RCA)** Y / N

**Left Main Coronary Artery Stenosis  $\geq$ 50%** Y / N

**MI within 6 weeks** Y / N

**NYHA Functional Class III or IV w/in 6 weeks** Y / N

**Permanent Pacemaker or ICD** Y / N

**Cardiac Stress Test** Y / N

- Normal
- Abnormal

**Electrocardiogram** Y / N

- Normal
- Abnormal

**Neurological History and Risk Factors**
**Dementia or Alzheimer's Disease** Y / N

**Previous Carotid Intervention RT**

- Previous Right CEA Timeframe Y/N
  - $\leq$ 30 days prior
  - 31-180 days prior
  - $\geq$ 181 days prior
- Previous Right CAS Timeframe Y/N
  - $\leq$ 30 days prior
  - 31-180 days prior
  - $\geq$ 181 days prior

**History of Seizure or Known Seizure Disorder** Y / N

**Previous Carotid Intervention LT**

- Previous Left CEA Timeframe Y/N
  - $\leq$ 30 days prior
  - 31-180 days prior
  - $\geq$ 181 days prior
- Previous Left CAS Timeframe Y/N
  - $\leq$ 30 days prior
  - 31-180 days prior
  - $\geq$ 181 days prior

**Neurologic Event(s) prior to procedure** Y / N

**TIA - RT**    **LT**    **Retinal**    **Hemispheric**  
                   **Vertebrobasilar**    **Unknown**
**TIA Timeframe**

- $\leq$ 30 days ago
- 31-180 days ago
- $\geq$ 181 days ago

**Ischemic Stroke - RT**    **LT**
**Retinal**    **Hemispheric**  
                   **Vertebrobasilar**    **Unknown**
**Ischemic Stroke Timeframe**

- $\leq$ 30 days ago
- 31-180 days ago
- $\geq$ 181 days ago

**Intracranial Hemorrhage or Hemorrhagic Stroke -**
**Intraparenchymal**    **Subarachnoid**    **Subdural**
**Intracranial Hemorrhage Timeframe**

- $\leq$ 30 days ago
- 31-180 days ago
- $\geq$ 181 days ago

**Acute Evolving Stroke** Y / N

**Transient Monocular Blindness** Y / N

**Pre-Procedure Carotid Studies: (within past 6 months):**
**Carotid Duplex Ultrasound (PRE)** Y / N

**Peak Systolic Velocity - Right (PRE)** \_\_\_\_\_ cm/sec    **ND**
**Peak Systolic Velocity - Left (PRE)** \_\_\_\_\_ cm/sec    **ND**
**End Diastolic Velocity - Right (PRE)** \_\_\_\_\_ cm/sec    **ND**
**End Diastolic Velocity - Left (PRE)** \_\_\_\_\_ cm/sec    **ND**
**ICA/CCA Ratio - Right** \_\_\_\_\_ cm/sec    **ND**
**ICA/CCA Ratio - Left** \_\_\_\_\_ cm/sec    **ND**
**CTA Angiography Performed** Y / N

**CTA CCA Highest % Stenosis - Right** \_\_\_\_\_ %    **ND**
**CTA CCA Highest % Stenosis - Left** \_\_\_\_\_ %    **ND**
**CTA ICA Highest % Stenosis - Right** \_\_\_\_\_ %    **ND**
**CTA ICA Highest % Stenosis - Left** \_\_\_\_\_ %    **ND**
**MRA Angiography Performed** Y / N

**MRA CCA Highest % Stenosis - Right** \_\_\_\_\_ %    **ND**
**MRA CCA Highest % Stenosis - Left** \_\_\_\_\_ %    **ND**
**MRA ICA Highest % Stenosis - Right** \_\_\_\_\_ %    **ND**
**MRA ICA Highest % Stenosis - Left** \_\_\_\_\_ %    **ND**
**Carotid Angiography Performed** Y / N

**Carotid Angio CCA Highest % Stenosis - Right** \_\_\_\_\_ %    **ND**
**Carotid Angio CCA Highest % Stenosis - Left** \_\_\_\_\_ %    **ND**
**Carotid Angio ICA Highest % Stenosis - Right** \_\_\_\_\_ %    **ND**
**Carotid Angio ICA Highest % Stenosis - Left** \_\_\_\_\_ %    **ND**
**Procedure Details**
**Target Carotid Vessel**    **RT**    **LT**
**TCAR** Y / N

**Anesthesia**

- Local
- General
- MAC

**Procedure Indications and Anatomic Variables**
**Urgent Cardiac Surgery w/in 30 days** Y / N

**Concurrent with CABG** Y / N

**Target Lesion Symptomatic w/in Past 6**
**Months** Y / N

**Syncope** Y / N

**Restenosis in Target Vessel after Prior CAS**

Y / N

**Restenosis in Target Vessel after Prior CEA**

Y / N

**Contralateral Carotid Artery Occlusion**

Y / N

**Fibromuscular Dysplasia of Carotid Artery**

Y / N

**Spontaneous Carotid Artery Dissection**

Y / N

**Pre-procedure smoking cessation** Y / N

 Physician delivered advice Pt ref

 NRT Pt ref

 Referral to smoking counseling services

 Pt ref

 Local counseling service

 MI Quitline

 Other counseling service

**Lesion Difficult to Access Surgically** Y / N

 High Cervical

 Low Intrathoracic

**Aortic Arch Type**
 Type I

 Type II

 Type III

 Unknown

**Bovine Arch** Y / N

**Contrast Volume** \_\_\_\_\_ mL ND

**Procedural Arterial Access Site**
 Femoral

 Brachial/Radial/Axillary

 Direct Carotid Puncture

 Carotid Cutdown

 Other

**Vascular Closure Type**
 Manual (No device)

 Perclose

 Angioseal

 Mynx

 Starclose

 Exoseal

 Surgical

 Celt

 Radial compression band

**Lesions and Devices**
**Target lesion Location**
 Isolated CCA

 Isolated ICA

 Bifurcation

**Visible Thrombus Present** Y / N

**Ulceration** Y / N

**Calcification**
 None

 Mild to Moderate

 Dense to Concentric

**Lesion Length (CAS)** \_\_\_\_\_ mm

 ND

**Pre Procedure % Stenosis** \_\_\_\_\_ %

**2<sup>nd</sup> Lesion Pre proc % Stenosis** Y / N

 \_\_\_\_\_ %

**Lesion Treatment Incomplete/Aborted** Y / N

 Failure to gain vascular access

 Failure to confirm significant stenosis

 Unable to place guiding catheter/  
sheath

 Unable to cross guidewire

 Unable to cross balloon

 Unable to deploy EPD

 Unable to deliver stent

 Unable to deploy stent

 Difficult to access due to tortuosity

 Hypotension

 Hypertension

 Arrhythmia

 Cardiac ischemia

 Other

**Emboic Protection Attempted** Y/N

**Predilation Prior to EPD Deployment** Y / N

**EPD Successfully Deployed** Y / N

**EPD Manufacturer Name** \_\_\_\_\_

**EPD Model Name** \_\_\_\_\_

**Stents Implanted** Y / N

**Predilation Prior to Attempted Stent Implant** Y / N

**Stent Tapered** Y / N

**Stent Diameter** Y / N

\_\_\_\_\_ mm

**Stent Length** Y / N

\_\_\_\_\_ mm

**Malposition** Y / N

**Stent Manufacturer Name**

\_\_\_\_\_

**Stent Model Name**

\_\_\_\_\_

**Ballooning/Post Dilation Performed**

Y / N

**Balloon Dia** \_\_\_\_\_ mm ND

**Max. Inflation pressure** \_\_\_\_\_ atm

 ND

**Final Min. Luminal Dia** \_\_\_\_\_ mm

 ND

**Final % Stenosis** \_\_\_\_\_ %

**Outcomes**
**Vascular Access Complications** Y / N

- Retroperitoneal hematoma
- Pseudo-aneurysm
- Hematoma at access site
- Bleeding at access site
- AV fistula
- Acute thrombosis
- Surgical repair of the vascular access site
- Other

**Filter Spasm** Y / N

**Slow Flow** Y / N

- After stent deployment
- After post dilation
- Aspiration was performed
- Aspirate had visible debris
- Patient had neurological changes during slow flow

**New Stroke** Y / N

**RT LT**

Hemispheric/Retinal    Vertebrobasilar    Unknown  
 Occurred    Resolved

**New TIA** Y / N

**RT LT**

Hemispheric/Retinal    Vertebrobasilar    Unknown

**Death** Y / N

- During procedure
- Post procedure

**Cause of Death**

- Neurologic Due to a new or progressive neuro event
- Cardiac Due to a fatal arrhythmia, MI or heart failure
- Pulmonary Due to a pulmonary complication
- Vascular D/T major blood loss or other vascular complication
- Infection Due to infection
- Renal Failure Due to renal failure
- Other Due to other cause

**Myocardial Injury** Y / N    **Date** \_\_\_\_\_

- Troponin leak
- Demand ischemia
- NSTEMI
- STEMI
- ND

**Peak post-operative troponin value** Y / ND

**I** \_\_\_\_\_    **Units** \_\_\_\_\_    No

**I HS** \_\_\_\_\_    **Units** \_\_\_\_\_    No

**T** \_\_\_\_\_    **Units** \_\_\_\_\_    No

**T HS** \_\_\_\_\_    **Units** \_\_\_\_\_    No