

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 No

Pre Troponin Y / ND

I _____ Units _____ No

T _____ Units _____ No

I HS _____ 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 <1 hr			
Clopidogrel (Plavix)					Saline Infusion 1-3 hrs			
Prasugrel (Effient)					Saline Infusion 3-6 hrs			
Ticagrelor (Brilinta)					Saline Infusion >6 hrs			
Atropine					LR Infusion <1 hr			
IV Nitroglycerin					LR Infusion 1-3 hrs			
IV Heparin/Unfractionated Heparin					LR Infusion ≥3-6 hrs			
Protamine					LR Infusion >6 hrs			
Bivalirudin (Angiomax)					Other Hydration Inf <1 hr			
Thrombolytics (TPA /TNK /rPA)					Other Hydration Inf 1-3 hrs			
Sodium Bicarb Infusion					Other Hydration Inf ≥3-6 hrs			
					Other Hydration Inf >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 RT LT

Cardiac History

Two or More Major Coronary Arteries with Stenosis ≥70% (LAD, LCX, RCA) Y / N

Left Main Coronary Artery Stenosis ≥50% Y / N

MI within 6 weeks BY / N

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

Permanent Pacemaker or ICD Y / N

Cardiac Stress Test Y / N <input type="radio"/> Normal <input type="radio"/> Abnormal	Electrocardiogram Y / N <input type="radio"/> Normal <input type="radio"/> Abnormal
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<u>Neurologic History and Risk Factors</u> Dementia or Alzheimer's Disease Y / N Previous Carotid Intervention RT <input type="radio"/> Previous RT CEA Timeframe Y/N <input type="radio"/> ≤30 days ago <input type="radio"/> 31-180 days ago <input type="radio"/> ≥181 days ago <input type="radio"/> Previous RT CAS Timeframe Y/N <input type="radio"/> ≤30 days ago <input type="radio"/> 31-180 days ago <input type="radio"/> ≥181 days ago	History of Seizure or Known Seizure Disorder Y / N Carotid Previous Carotid Intervention LT <input type="radio"/> Previous LT CEA Timeframe Y/N <input type="radio"/> ≤30 days ago <input type="radio"/> 31-180 days ago <input type="radio"/> ≥181 days ago <input type="radio"/> Previous LT CAS Timeframe Y/N <input type="radio"/> ≤30 days ago <input type="radio"/> 31-180 days ago <input type="radio"/> ≥181 days ago
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Neurologic Event(s) prior to procedure Y / N TIA - RT LT Retinal Hemispheric Vertebrobasilar Unknown	Ischemic Stroke - RT LT Retinal Hemispheric Vertebrobasilar Unknown	Intracranial Hemorrhage or Hemorrhagic Stroke - Intraparenchymal Subarachnoid Subdural
TIA Timeframe <input type="radio"/> ≤30 days ago <input type="radio"/> 31-180 days ago <input type="radio"/> ≥181 days ago	Ischemic Stroke Timeframe <input type="radio"/> ≤30 days ago <input type="radio"/> 31-180 days ago <input type="radio"/> ≥181 days ago	Neurologic Event Timeframe <input type="radio"/> ≤30 days ago <input type="radio"/> 31-180 days ago <input type="radio"/> ≥181 days ago
Acute Evolving Stroke Y / N		

<u>Pre-Procedure Carotid Studies (within past 6 months)</u>	
Carotid Duplex Ultrasound (PRE) Y / N Peak Systolic Velocity - RT (PRE) _____ cm/sec ND Peak Systolic Velocity - LT (PRE) _____ cm/sec ND End Diastolic Velocity - RT (PRE) _____ cm/sec ND End Diastolic Velocity - LT (PRE) _____ cm/sec ND ICA/CCA Ratio - RT _____ cm/sec ND ICA/CCA Ratio - LT _____ cm/sec ND MRA Angiography Performed Y / N MRA CCA Highest % Stenosis - RT _____ % ND MRA CCA Highest % Stenosis - LT _____ % ND MRA ICA Highest % Stenosis - RT _____ % ND MRA ICA Highest % Stenosis - LT _____ % ND	CTA Angiography Performed Y / N CTA CCA Highest % Stenosis - RT _____ % ND CTA CCA Highest % Stenosis - LT _____ % ND CTA ICA Highest % Stenosis - RT _____ % ND CTA ICA Highest % Stenosis - LT _____ % ND Carotid Angiography Performed Y / N Carotid Angio CCA Highest % Stenosis - RT _____ % ND Carotid Angio CCA Highest % Stenosis - LT _____ % ND Carotid Angio ICA Highest % Stenosis - RT _____ % ND Carotid Angio ICA Highest % Stenosis - LT _____ % ND

Procedure Details

Target Carotid Vessel RT LT

Type of Carotid Procedure

- Conventional
- Eversion

ASA Class _____

Anesthesia

- General
- Local
- Regional

Monitoring During Procedure Y / N

- Awake
- Cerebral monitoring
- Stump Pressure
- EEG
- Other

Antibiotics Pre Procedure Y / N

Skin Preparation

- Chlorhexidine
- Alcohol
- Iodine
- Chlorhexidine + Iodine
- Chlorhexidine + Alcohol
- Iodine + Alcohol

Arteriotomy Patch Used Y / N

Visible Thrombus Present Y / N

Shunt Used Y / N

Completion Evaluation Y / N

- Doppler
- Duplex
- Angiogram
- Flowprobe

Drain Y / N

Surgical Procedure Terminated Y / N

- Hypotension
- Hypertension
- Cardiac instability
- Nerve compromise
- Difficulty with anesthesia
- Inability to implement shunting
- Excessive scar tissue
- Difficult dissection
- Excessive bleeding
- Carotid artery thrombosis
- ICA string sign / atresia
- Inability to access lesion d/t anatomical reasons
- Other

Re-explore After Closure Y / N

Procedure Indications and Anatomic Variables

Urgent Cardiac Surgery within 30 days Y / N

Concurrent with CABG Y / N

Target Lesion Symptomatic within 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

Outcomes

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

CHF Y / N Date _____

Cranial Nerve Injury Y/N

- VII
- IX
- X
- XII
- Other

Dysrhythmia Y / N Date _____

Myocardial Injury Y / N Date _____

- Acute MI
- Type 2 MI
- Type 1 NSTEMI
- STEMI
- ND

Peak post-operative troponin value Y / ND

I _____ **Units** _____ No

T _____ **Units** _____ No

I HS _____ **Units** _____ No

T HS _____ **Units** _____ No

Persistent Hypotension Y / N

Reperfusion Symptoms Y / N

- Seizure
- Hemorrhage
- Non specific

Return to OR Y / N

- Bleeding
- Neurologic Event
- Technical defect requiring revision

Was the LOS >2 days after CEA? Y/N (For Elective CEA only)

- Hypertension
- Lack of transportation
- No caregiver/support at home
- COPD
- Urinary retention
- Placement to another facility
- Worsening of stroke after CEA
- CEA & another surgical proc, same DC
- Other