BMC2 Carotid Artery Stent (CAS) Worksheet for REDCap

Procedure Information

Procedure # **Physician** **Fellow ID/Second Operator**

Procedure Date **Start Time** **Procedure End Date** **End Time**

Status of Procedure ○ Elective ○ Urgent ○ Emergent

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

Prior Neck Surgery (other than CEA) Y / N

Tracheostomy Present Y / N

Previous Laryngeal Nerve Palsy Y / N **RT** **LT**

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 Y / N

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

Permanent Pacemaker or ICD Y / N

Dementia or Alzheimer's Disease Y / N

History of Seizure or Known Seizure Disorder Y / N

Previous Carotid Intervention Y / N

RT **LT** **CEA** **CAS**

Carotid Intervention Timeframe
- ○ ≤30 days ago
- ○ 31-180 days ago
- ○ ≥181 days ago

Neurologic Event(s) prior to procedure Y / N

TIA – RT LT Retinal Hemispheric Vertebrobasilar Unknown

TIA Timeframe
- ○ ≤30 days ago
- ○ 31-180 days ago
- ○ ≥181 days ago

Ischemic Stroke – RT LT Retinal Hemispheric Vertebrobasilar Unknown

Ischemic Stroke Timeframe
- ○ ≤30 days ago
- ○ 31-180 days ago
- ○ ≥181 days ago

Intracranial Hemorrhage or Hemorrhagic Stroke – Intraparenchymal Subarachnoid Subdural

Intracranial Hemorrhage Timeframe
- ○ ≤30 days ago
- ○ 31-180 days ago
- ○ ≥181 days ago

Acute Evolving Stroke Y/ N

Transient Monocular Blindness Y / N

Imaging Studies Within past 6 months

Cardiac Stress Test Y / N
- ○ Nml
- ○ Abn

Electrocardiogram Y / N
- ○ Nml
- ○ Abn

Carotid Duplex Ultrasound (PRE) Y / N

Right

PSV _____ cm/sec ND

EDV_____ cm/sec ND

ICA/CCA Ratio_____ ND

Left

PSV_____ cm/sec ND

EDV_____ cm/sec ND

ICA / CCA Ratio _____ ND

MRA Angio Performed Y / N

MRA CCA Highest % Stenosis

RT_____ % ND

LT_____% ND

MRA ICA Highest % Stenosis

RT_____ % ND

LT_____% ND

CTA Angio Performed Y / N

CTA CCA Highest % Stenosis

RT_____ % ND

LT_____% ND

CTA ICA Highest % Stenosis

RT_____ % ND

LT_____% ND

Carotid Angio Performed Y / N

Carotid Angio CCA Highest % Stenosis

RT_____ % ND

LT_____% ND

Carotid Angio ICA Highest % Stenosis

RT_____ % ND

LT_____ % ND

Labs Pre Procedure

Creatinine _____ mg/dl ND

Hemoglobin _____ g/dl ND

BNP _____pg/ml ND

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

Medications During Procedure	Pre	During	Post	C / I
Aspirin				
Clopidogrel (Plavix)				
Prasugrel (Effient)				
Ticagrelor (Brilinta)				
Atropine				
IV Nitroglycerin				
IV Heparin/Unfractionated Heparin				
Protamine				
Bivalirudin (Angiomax)				
Thrombolytics				

	Pre	During	Post
Sodium Bicarbonate Infusion			
Saline <1 hr			
Saline 1-3 hrs			
Saline 3-6 hrs			
Saline >6 hrs			
LR <1 hr			
LR 1-3 hrs			
LR ≥3-6 hrs			
LR >6 hrs			
Other <1 hr			
Other 1-3 hrs			
Other ≥3-6 hrs			
Other >6 hrs			

Procedure Indications and Anatomic Variables

Urgent Cardiac Surgery w/in 30 days Y / N

Concurrent with CABG Y / N

Target Lesion Symp w/in Past 6 Mos 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 Occl Y / N

FMD of Carotid Artery Y / N

Spontaneous Carotid Artery Diss Y / N

Lesion Diff to Access Surgically Y / N
- ○ High Cervical
- ○ Low Intrathoracic

Aortic Arch Type
I II III Unknown

Bovine Arch Y / N

Contrast Volume_____ml / ND

Procedural Arterial Access Site
- ○ Femoral
- ○ Brachial/Rad/Axillary
- ○ Direct Carotid Puncture
- ○ Other

Vascular Closure Type
- ☐ Manual: No device or mechanical type
- ☐ Perclose
- ☐ Angioseal
- ☐ Mynx
- ☐ Starclose
- ☐ Exoseal
- ☐ Surgical
- ☐ Celt
- ☐ Radial Compression Band

Procedure Details

Target Carotid Vessel RT LT

TCAR Y / N

Anesthesia
- ○ Local
- ○ General
- ○ MAC

Target Lesion Location
- ○ Isolated CCA
- ○ Isolated ICA
- ○ Bifurcation

Visible Thrombus Present Y / N

Ulceration Y / N

Calcification
- ○ None
- ○ Mild to Moderate
- ○ Dense and Concentric

Lesion Length _____mm / ND

Pre proc % Stenosis_____% / ND

Procedure Details cont.

2nd Lesion Pre proc % Stenosis_____% / No

Lesion Treatment Incomplete/Aborted Y / N

- □ Failure to gain vascular access
- □ Failure to confirm significant stenosis
- □ Unable to place guiding cath/ sheath
- □ Unable to cross guide wire
- □ 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

EPD Attempted Y / N

Predilation prior to EPD Deployment Y / N

EPD Successfully Deployed Y / N

EPD Manufacturer Name_____

EPD Model Name_____

Stent(s) Implanted Y / N

Predilation Prior to Attempted Stent Implant Y / N

Stent Tapered Y / N

Stent dia_____mm / No

Stent length_____mm / No

Malposition Y / N

Stent Manuf 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_____% / ND

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_____

- ○ Acute Myocardial Injury
- ○ Type 2 Myocardial Infarction
- ○ Type 1 NSTEMI
- ○ STEMI
- ○ ND

Peak post-op troponin value Y / ND

I _____ **Units**_____ No

T _____ **Units**_____ No

I HS_____ **Units**_____ No

T HS_____ **Units**_____ No