BMC2 Carotid Artery Stent (CAS) Worksheet

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

T _____ **Units**_____ No

I HS_____ **Units**_____ No

T HS_____ **Units**_____ No

Labs Post Procedure

Peak Creatinine _____ mg/dl ND

Nadir Hemoglobin _____ g/dl ND

Medication 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 (TPA /TNK /rPA)				
Sodium Bicarbonate				

	Pre	**During**	**Post**
Saline Infusion <1 hr			
Saline Infusion 1-3 hrs			
Saline Infusion 3-6 hrs			
Saline Infusion >6 hrs			
LR Infusion <1 hr			
LR Infusion 1-3 hrs			
LR Infusion ≥3-6 hrs			
LR Infusion >6 hrs			
Other Hydration Inf <1 hr			
Other Hydration Inf 1-3 hrs			
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

LT 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

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 RT CEA Timeframe Y/N
  - ≤30 days ago
  - 31-180 days ago
  - ≥181 days ago
- Previous RT CAS Timeframe Y/N
  - ≤30 days ago
  - 31-180 days ago
  - ≥181 days ago

History of Seizure or Known Seizure Disorder Y / N

Previous Carotid Intervention LT
- Previous LT CEA Timeframe Y/N
  - ≤30 days ago
  - 31-180 days ago
  - ≥181 days ago
- Previous LT CAS Timeframe Y/N
  - ≤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

Pre-Procedure Carotid Studies: (within past 6 months):

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

TCAR Y / N

Anesthesia
- Local
- General
- MAC

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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_____ % ND

2nd 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 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

Embolic 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_____% 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 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