BMC2 Carotid Artery Stent (CAS) Worksheet

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

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

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

Pre Procedure mRS Answer if prior Neuro Events or Acute Evolving Stroke is Yes Y / N _____(score)

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

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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

Meds During Procedure
Aspirin (PRE) Procedure G NG C/I
Clopidogrel (Plavix) (PRE) Procedure G NG C/I
Prasugrel (Effient) (PRE) Procedure G NG C/I
Ticagrelor (Brilinta) (PRE) Procedure G NG C/I
Atropine (PRE) Procedure G NG
Glycopyrrolate (Monograph) DURING Procedure G NG
IV Nitroglycerin (DURING) Procedure G NG
IV Heparin/Unfractionated Heparin Pre During Post NG
Protamine (DURING) Procedure G NG
Thrombolytics Pre During Post NG

Labs Post Procedure

Peak Creatinine _____ mg/dl ND

Nadir Hemoglobin _____g/dl ND

Infusions During Procedure	Pre	During	Post
Sodium Bicarb 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			
Crystalloids (mL)			**ND**

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

Contralateral Carotid Artery Occl Y / N

FMD of Carotid Artery Y / N

Aortic Arch Type

I II III Unknown

Bovine Arch Y / N

Procedure Details

Target Carotid Vessel RT LT

TCAR Y / N

Anesthesia

- ○ Local
- ○ General
- ○ MAC

Procedural Arterial Access Site

- ○ Femoral
- ○ Brachial/Rad/Axillary
- ○ Direct Carotid Puncture
- ○ Carotid Cutdown
- ○ Other

Lesions Treated

- ○ Single lesion
- ○ Distinct lesions
- ○ 2nd Lesion (Not Treated) Y / N
- ○ 2nd Lesion Pre proc % Stenosis_____%

Lesion 1:

Restenosis in Target Vessel after Prior CAS Y / N

Restenosis in Target Vessel after Prior CEA Y / N

Spontaneous Carotid Artery Dissection Y / N

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

Lesion Diff to Access Surgically Y / N

- ○ High Cervical
- ○ Low Intrathoracic

EPD Attempted Y / N

Predilation prior to EPD Deploy Y / N

EPD Successfully Deployed Y / N

EPD Model Name_____

Lesion Tx 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

BMC2 Carotid Artery Stent (CAS) Worksheet

Stent #1: Answer if Lesion Aborted is No

Stent 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 Model Name_____

Final % Stenosis_____% / ND

Ballooning/Post dilation Performed Y / N

Balloon dia_____mm / ND

Lesion 2: Answer when 2nd Stenosis (Not Treated) is No

Restenosis in Target Vessel after Prior CAS Y / N

Restenosis in Target Vessel after Prior CEA Y / N

Spontaneous Carotid Artery Dissection Y / N

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

Lesion Diff to Access Surgically Y / N

- ○ High Cervical
- ○ Low Intrathoracic

EPD Attempted Y / N

Predilation prior to EPD Deploy Y / N

EPD Successfully Deployed Y / N

EPD Model Name_____

Lesion Tx Incomplete/Aborted Y / N

- □ Failure to gain vascular access
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- □ 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

Stent #2: Answer if Lesion Aborted is No

Stent 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 Model Name_____

Final % Stenosis_____% / ND

Ballooning/Post dilation Performed Y / N

Balloon dia_____mm / ND

Vascular Closure Type

- □ Manual
- □ Perclose
- □ Angioseal
- □ Mynx
- □ Starclose
- □ Exoseal
- □ Surgical
- □ Celt
- □ Radial Compression Band
- □ Other

Contrast Volume_____ml / 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

Worst mRS Y / N _____(score) **Answer when New Stroke is Yes**

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