Pre-Op

Patient Care

☑ Obtain consent
  T;N, For Transcatheter Aortic Valvuloplasty

☑ Obtain consent
  T;N, Blood Transfusion

☑ Communication Order
  T;N, Obtain records/reports for prior Carotid Duplex/CTA of Head/Neck OR CABG OR Vascular Surgery OR Cardiac/Vascular Angiogram and/or Intervention

☐ NIH Stroke Scale
  T;N, Once

☑ Weight
  T;N, Once

☑ Bath Details
  T;N, Once, Pre-surgical scrub

☑ Peripheral IV Insertion
  T;N, Insert and Maintain 20 gauge (DEF)*
  T;N, Insert and Maintain 18 gauge

☑ Patient Education
  T;N, Once, Pre-Op teaching

☐ Blood Glucose Monitoring POC
  T;N, Once (DEF)*
  T+1; N, Once

☐ Quality Measures, SCIP

☑ SURG Pre-Operative SCIP VC(SUB)*

Diet/Nutrition

☑ NPO
  T;2359, NPO except for medications (DEF)*
  T;N, NPO except for medications

☐ Clear Liquid Diet
  T+1;0700, Start Meal: Breakfast

Medications

Antiplatelets

☐ aspirin
  325 mg, Oral, Once, Form: Tab (DEF)*
  324 mg, Oral, Once, Form: Tab-Chew

☐ Plavix
  75 mg, Oral, Form: Tab, Once (DEF)*
  300 mg, Oral, Form: Tab, Once
600 mg, Oral, Form: Tab, Once

Anti-anxiety

Valium
2 mg, Oral, q1hr, PRN Anxiety, Order Duration: 2 doses, Form: Tab (DEF)*
2.5 mg, IV Push, Form: Injection, q1hr, PRN Anxiety, Order Duration: 2 doses

HMG-CoA Reductase Inhibitors

Lipitor
20 mg, Oral, Once, Form: Tab (DEF)*
80 mg, Oral, Once, Form: Tab
40 mg, Oral, Once, Form: Tab
10 mg, Oral, Once, Form: Tab

Contrast Allergy Prophylaxis

predniSONE
60 mg, Oral, Form: Tab, q8hr, Order Duration: 2 doses (DEF)*
   Comments: Give PM prior and AM of CV procedureFor patients admitted DAY OF procedure
60 mg, Oral, Form: Tab, q8hr, Order Duration: 1 doses
   Comments: "Give the morning before the procedureFor patients admitted DAY OF procedure"

Solu-MEDROL
125 mg, IV Push, Form: Vial, Once
   Comments: AM of CV procedure

Benadryl
50 mg, Oral, Once, Form: Cap
   Comments: give the morning of the procedure

Pepcid
20 mg, Oral, Once, Form: Tab
   Comments: give the morning of the procedure

Contrast Nephropathy Prophylaxis

acetylcysteine 20% inhalation solution
600 mg, Oral, BID, Order Duration: 4 doses, Form: Soln-Oral
   Comments: give the day before and day of procedure

sodium bicarbonate/D5W 150 mEq/1000 mL (IVS)*
   Dextrose 5% in Water
   Total Volume (mL): 1,000, IV, 125 mL/hr
   sodium bicarbonate 8.4% intravenous solution
   150 mEq, EB

Laboratory

CBC Hemogram
   Blood, Stat Collect, T;N

PT/INR
   Blood, Stat Collect, T;N

PTT
   Blood, Stat Collect, T;N

Basic Metabolic Panel
   Blood, Stat Collect, T;N

Comprehensive Metabolic Panel
   Blood, Stat Collect, T;N

Hemoglobin A1c
   Blood, Stat Collect, T;N

Glucose Fasting
   Blood, Stat Collect, T;N (DEF)*
   Blood, AM Draw Collect, T+1; 0330
   If female of child bearing age order a Beta hCG Qualitative(NOTE)*
Beta hCG Qualitative
  Blood, Stat Collect, T;N

Beta hCG Qualitative Urine
  Urine, Routine collect, T;N

Urinalysis with Culture if Indicated
  Urine, Routine collect, T;N

BB Type and Screen Tube(SUB)*

Card/Vasc/Neuro
  Electrocardiogram
  T;N, Routine

Consults/Referrals
  Consult to Anesthesiology
  T;N, Routine

Communication Orders
  Communication Order
  T;N, Initiate PreOperative Standards Protocol

Post-Op

Patient Care
  ☑ Vital Signs
    T;N, Per standard protocol
  ☑ Weight
    T;N, Daily
  ☑ Neurological Checks
    T;N, PRN, q2hrs X 3, then q4hrs X 3
  ☑ Intake and Output
    T;N, PRN, Strict I & O ongoing
  ☑ Urinary Catheter Insertion
    T;N, Straight, PRN x 1 if unable to void post procedure.
  ☑ Wound Care Routine
    T;N, Constant order, Daily maintain dressing
  ☑ Chest Tube Monitoring
    T;N, Constant order, 20 cm H2O with water seal (DEF)*
    T;N, Constant order, 20 cm H2O without water seal
  ☑ Pulse Oximetry
    T;N, Constant order, Until bedrest completed.
  ☑ Assess Operative Site
    T;N, Constant order, Ongoing assessment of vascular access site(s) and/or puncture sites.
  ☑ Warming Blanket
    T;N, PRN, For temp less than 36 deg C immediate post-op use warm blankets and overhead lamp.
    For temp less than 35 deg C rewarm using heating air blanket.
  ☑ Incentive Spirometry Nursing
    T;N, q4hr, while awake
  ☐ NIH Stroke Scale
    T;N, Once
  ☑ Vascular Sheath Removal
    T, PRE sheath removal: VS, groin and pedal pulse assessments q15min x 4, then q30min x 2, then q1hr until sheath removed
  ☑ Vascular Sheath Removal
    T, POST sheath removal: VS, groin and pedal pulse assessments q15min x 4, then q30min x 2, then q1hr x 4, then per policy
  ☐ Arterial Line Discontinue
    T;N
  ☐ Central Venous Line Discontinue
Drain/Tube Discontinue

Tube/Drain Site care

Arterial Line Monitoring

Central Venous Pressure

Intra-Aortic Balloon Pump Settings

Cardiac Index Monitoring

Cl/CO Monitoring

Pulmonary Artery Pressure

Cardiac Monitoring

Pulmonary Capillary Wedge Pressure

Quality Measures, SCIP

SURG Post-Operative SCIP VC(SUB)*

Activity

Bedrest

Up ad Lib

Elevate Head of Bed

Weight Bearing

Non Weight Bearing

Dangle at Bedside

Ambulate

Up to Chair

Ambulate

Up to Chair

Diet/Nutrition

NPO

Comments: Strict NPO until patient is extubated.
Nurse Management Of Diet After NPO
T:N, Heart-healthy Diet

Continuous Infusions

- **Dextrose 5% with 0.45% NaCl**
  - Total Volume (mL): 1,000, IV, 75 mL/hr, Drug Form Soln-IV (DEF)*
  - Comments: Once patient out of bed, then saline lock and DC IV fluid. Hold maintenance IVF while sodium bicarbonate running
  - Total Volume (mL): 1,000, IV, 100 mL/hr, Drug Form Soln-IV
  - Comments: Once patient out of bed, then saline lock and DC IV fluid. Hold maintenance IVF while sodium bicarbonate running
  - Total Volume (mL): 1,000, IV, 125 mL/hr, Drug Form Soln-IV
  - Comments: Once patient out of bed, then saline lock and DC IV fluid. Hold maintenance IVF while sodium bicarbonate running
  - Total Volume (mL): 1,000, IV, 1 mL/kg/hr, Drug Form Soln-IV
  - Comments: Once patient out of bed, then saline lock and DC IV fluid. Hold maintenance IVF while sodium bicarbonate running

- **Sodium Chloride 0.9%**
  - Total Volume (mL): 1,000, IV, 75 mL/hr, Drug Form Soln-IV (DEF)*
  - Comments: Once patient out of bed, then saline lock and DC IV fluid. Hold maintenance IVF while sodium bicarbonate running
  - Total Volume (mL): 1,000, IV, 100 mL/hr, Drug Form Soln-IV
  - Comments: Once patient out of bed, then saline lock and DC IV fluid. Hold maintenance IVF while sodium bicarbonate running
  - Total Volume (mL): 1,000, IV, 125 mL/hr, Drug Form Soln-IV
  - Comments: Once patient out of bed, then saline lock and DC IV fluid. Hold maintenance IVF while sodium bicarbonate running
  - Total Volume (mL): 1,000, IV, 1 mL/kg/hr, Drug Form Soln-IV
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  - Total Volume (mL): 1,000, IV, 125 mL/hr, Drug Form Soln-IV
  - Comments: Once patient out of bed, then saline lock and DC IV fluid. Hold maintenance IVF while sodium bicarbonate running
  - Total Volume (mL): 1,000, IV, 1 mL/kg/hr, Drug Form Soln-IV
  - Comments: Once patient out of bed, then saline lock and DC IV fluid. Hold maintenance IVF while sodium bicarbonate running

- **Dextrose 5% with 0.45% NaCl and KCl 20 mEq/L**
  - Total Volume (mL): 1,000, IV, 75 mL/hr, Drug Form Soln-IV (DEF)*
  - Total Volume (mL): 1,000, IV, 100 mL/hr, Drug Form Soln-IV
  - Total Volume (mL): 1,000, IV, 125 mL/hr, Drug Form Soln-IV
  - Total Volume (mL): 1,000, IV, 1 mL/kg/hr, Drug Form Soln-IV

- **Sodium Chloride 0.45% with KCl 20 mEq/L**
  - Total Volume (mL): 1,000, IV, 75 mL/hr, Drug Form Soln-IV (DEF)*
  - Total Volume (mL): 1,000, IV, 125 mL/hr, Drug Form Soln-IV
  - Total Volume (mL): 1,000, IV, 100 mL/hr, Drug Form Soln-IV
Dextrose 5% in Water

Total Volume (mL): 1,000, IV, 75 mL/hr, Drug Form Soln-IV (DEF)*
Comments: Once patient out of bed, then saline lock and DC IV fluid. Hold maintenance IVF while sodium bicarbonate running

Total Volume (mL): 1,000, IV, 100 mL/hr, Drug Form Soln-IV
Comments: Once patient out of bed, then saline lock and DC IV fluid. Hold maintenance IVF while sodium bicarbonate running

Total Volume (mL): 1,000, IV, 125 mL/hr, Drug Form Soln-IV
Comments: Once patient out of bed, then saline lock and DC IV fluid. Hold maintenance IVF while sodium bicarbonate running

Total Volume (mL): 1,000, IV, 1 mL/kg/hr, Drug Form Soln-IV
Comments: Once patient out of bed, then saline lock and DC IV fluid. Hold maintenance IVF while sodium bicarbonate running

Lactated Ringers Injection

Total Volume (mL): 1,000, IV, 75 mL/hr, Drug Form Soln-IV (DEF)*
Comments: Once patient out of bed, then saline lock and DC IV fluid. Hold maintenance IVF while sodium bicarbonate running

Total Volume (mL): 1,000, IV, 100 mL/hr, Drug Form Soln-IV
Comments: Once patient out of bed, then saline lock and DC IV fluid. Hold maintenance IVF while sodium bicarbonate running

Total Volume (mL): 1,000, IV, 125 mL/hr, Drug Form Soln-IV
Comments: Once patient out of bed, then saline lock and DC IV fluid. Hold maintenance IVF while sodium bicarbonate running

Total Volume (mL): 1,000, IV, 1 mL/kg/hr, Drug Form Soln-IV
Comments: Once patient out of bed, then saline lock and DC IV fluid. Hold maintenance IVF while sodium bicarbonate running

Medications
☐ SURG TAVR Post-Op Medications VC(SUB)*
☐ SURG TAVR convert to Open Heart Surgery Post-Op Medications VC(SUB)*
☐ ICU Cardiac Support VC(SUB)*
☐ MED Heparin Protocol VC(SUB)*

Laboratory
☐ CBC Hemogram
   Blood, Stat Collect, T;N
☐ PT/INR
   Blood, Stat Collect, T;N
☐ PTT
   Blood, Stat Collect, T;N
☐ Basic Metabolic Panel
   Blood, Stat Collect, T;N
☐ Magnesium Level
   Blood, Stat Collect, T;N
   **POD 1 / Daily Labs**(NOTE)*
☐ CBC Hemogram
   Blood, AM Draw Collect, T;N, q24hr for 5 times (DEF)*
   Blood, AM Draw Collect, T;N
☐ Basic Metabolic Panel
   Blood, AM Draw Collect, T;N, q24hr for 5 times (DEF)*
   Blood, AM Draw Collect
☐ PT/INR
   Blood, Routine Collect, T;N

Diagnostic Tests
☐ XR Chest 1 View Frontal  
  T;N, Stat
☐ XR Chest 1 View Frontal  
  T+1:0600, Routine
☐ XR Chest 2 Views  
  T;N, Routine
☐ CT Chest Abdomen w/ Contrast  
  T;N, Routine, Once
☐ CT Chest Abdomen w/o Contrast  
  T;N, Routine, Once
☐ Carotid Duplex US Right  
  T;N, Routine
☐ Carotid Duplex US Left

**Card/Vasc/Neuro**
☐ Electrocardiogram  
  T;N, Stat
☐ Electrocardiogram  
  T+1:0600, Once
☐ ECHO, 2-D Limited follow-up  
  T;N, Routine
☐ Echo, 2-D + Doppler + Color Flow  
  T;N, Routine
☐ NIV LE Arterial Dulex Bilateral  
  T;N, Routine

**Respiratory**
☐ Consult to Respiratory Therapy  
  T;N, Initiate RCAT
☐ Oxygen Therapy  
  T;N, Nasal Cannula, keep O2 sat above 92%

**Consults/Referrals**
☐ Consult to Cardiac Rehabilitation  
  T;N (DEF)*
  T;N, Open Heart Surgery

**Communication Orders**
☐ Notify Provider  
  T;N, pO2 less than 70; CVP greater than 14; PCWP greater than 14; Mean PA pressures greater than 25; PAS pressures greater than 40; Cardiac Index less than 2; SvO2 less than 60
☐ Notify Provider Laboratory Results  
  T;N, Potassium greater than 5.5 or less than 2.8; Hemoglobin less than 8.5; Hematocrit less than 24; FSBS greater than 400
☐ Notify Provider Vital Signs  
  T;N, T greater than 38.5, 36, HR greater than 120, HR less than 55, SBP greater than 130, SBP less than 90, MAP greater than 90, MAP less than 65, O2 sat less than 94
☐ Communication Order  
  T;N, If patient experiencing ectopy; patient experiencing angina; ECG changes or arrhythmias

*Report Legend:
DEF - This order sentence is the default for the selected order
GOAL - This component is a goal
IND - This component is an indicator
INT - This component is an intervention
IVS - This component is an IV Set
NOTE - This component is a note
Rx - This component is a prescription
SUB - This component is a sub phase