Diagnosis: ____________________________________________
Allergies with reaction type: ____________________________

Cardiovascular Surgery – Preoperative

General
☐ Order for Surgery: __________________________________

Date of Surgery: ______________________

***Obtain the Written Authorization for Ordered Surgery***

Patient Placement

Patient Status
☐ Admit to inpatient

Activity
☐ Up ad lib
☐ Out of bed with assistance
☐ Other: ____________________________________________

Nursing Orders
☐ Initiate pre-operative anesthesia protocol
☐ Peripheral venous cannula insertion/management place to peripheral IV’s
☐ Glucose, blood, point-of-care measurement 3 times a day, before meals and morning before surgery
☐ Urinary catheter initiation/management PLACE IN OR
☐ Hibiclens shower in evening before surgery and in morning of surgery (after surgical clip); scrub chest with hibiclens for at least one minute
☐ Surgical preparation, hair removal, use electric clippers only: neck to navel, nipple to nipple and bilateral legs ankle to groin (inside only) morning of surgery
☐ Notify provider if patient has angina (Surgeon and Cardiologist)
☐ Notify provider with all abnormal lab values
☐ Notify provider if capillary blood glucose is greater than 180 mg/dL x 2 consecutive results
☐ Notify provider if patient has latex allergy
☐ Give scheduled beta blocker in the morning prior to surgery hold if heart rate less than 50 bpm and notify anesthesia
☐ Other: ____________________________________________

Respiratory
☐ Oxygen Delivery RT/RN to determine: Titrate to keep oxygen saturation greater or equal to 92%
☐ Education, incentive spirometry
☐ Bedside spirometry evaluation O2 saturation on room air
☐ Pulmonary function tests

Diet
☐ Heart Healthy Diet
☐ Controlled Carbohydrate Diet
☐ NPO after midnight the day of surgery
☐ Other: ____________________________________________

IV Fluids
Sodium Chloride 0.9% IV
☐ 75 milliliter/hour continuous intravenous infusion IF no other maintenance fluids are ordered, Begin at 0600 for 0800 surgery, all surgery times begin at 0800
Lactated Ringers IV
☐ 75 milliliter/hour continuous intravenous infusion IF no other maintenance fluids are ordered, Begin at 0600 for 0800 surgery, all surgery times begin at 0800

Initials__________
Perioperative Antibacterial Prophylaxis
chlorhexidine gluconate 0.12% mouthwash (PERIDEX)
☑ 15 milliliter orally (swish and spit) 2 times a day (Give AM of surgery)

Reminders: Penicillin Allergy
● Penicillin allergy unknown reaction or known anaphylactic reaction: If patient believes they are penicillin allergic- discuss signs/symptoms of anaphylaxis to determine if cephalosporins are safe. If has had symptoms of anaphylaxis (loss of consciousness, shock, difficulty breathing, airway closure from laryngeal edema, hypotension with onset less than 1 day after taking penicillin) or unable to determine the reaction less than 1 day: DO NOT USE CEPHALOSPORINS.
● Penicillin allergy known non-anaphylactic reaction: If patient reaction to penicillin is rash, hives, swelling, skin redness, itching or GI symptoms with onset of greater than 1 day: MAY USE CEPHALOSPORINS.

☑ INITIATE GROUP 1 Surgical Pre-op Antibiotic Prophylaxis Protocol

After provider initiation of the group 1 protocol, nursing is to select appropriate antibiotics from the group 1 protocol choices below:

No Cephalosporin Allergy and No Anaphylaxis to Penicillin:
ceFAZolin (ANCEF)
☐ 2 gram intravenously once 0-60 minutes prior to surgical incision and repeat dose every 4 hours if surgical case is greater than 4 hours
☐ 3 gram intravenously once (Select for patients greater than 120 kilogram) 0-60 minutes prior to surgical incision and repeat dose every 4 hours if surgical case is greater than 4 hours

Cephalosporin Allergy OR Anaphylaxis to Penicillin OR unable to determine reaction type to Penicillin:
clindamycin (CLEOCIN)
☐ 900 milligram intravenously once 0-60 minutes prior to surgical incision and repeat dose every 6 hours if surgical case is greater than 6 hours

☑ INITIATE MRSA/MSSA Treatment Protocol
After provider initiation protocol, nursing is to select from the protocol options below:
MRSA positive  ☐ yes ☐ no
MSSA positive  ☐ yes ☐ no

IF MRSA or MSSA screen is positive: SELECT
mupirocin (BACTROBAN) 2% nasal ointment
☐ 0.5 gram in each nostril 2 times a day for 5 day = 10 total doses Begin day of surgery and/or give dose just prior to surgery

MRSA positive screen or history of MRSA without pre-op screen: SELECT in addition to above antibiotics
Select for all positive pre-op MRSA screen results prior to mupirocin (BACTROBAN) treatment regardless of post mupirocin (BACTROBAN) MRSA screen results
vancomycin (VANCOCIN)
☐ 15 milligram/kilogram intravenously once (2 gram MAX) 0-120 minutes prior to surgical incision, no repeat dose needed Pharmacy to dose
Medications

Medications to hold before elective surgery:

Pharmacy Communication
- Discontinue all ACE inhibitors, NSAIDS (DO NOT D/C ASPIRIN), metformin and diuretics 48 hours prior to surgery
- Discontinue clopidogrel or ticagrelor 5 days before surgery @ __________
- Discontinue effient 7 days prior to surgery @ __________
- Discontinue enoxaparin 1 day prior to surgery, after AM dose @ __________
- Discontinue arixtra 2 days prior to surgery @ __________
- Discontinue rivaroxaban 2 days prior to surgery @ __________
- Discontinue dabigatran 2 days prior to surgery if GFR (CrCl) greater than 50 ml/min @ __________
- Discontinue dabigatran 5 days prior to surgery if GFR (CrCl) less than 50 ml/min @ __________
- Discontinue apixaban 2 days prior to surgery @ __________

Insulin Correction Level
- insulin lispro (HUMALOG) Medium Dose Correction AC ONLY- DO NOT CORRECT AT HS:
  - 141 - 180 mg/dL  2 unit;
  - 181 - 220 mg/dL  4 units;
  - 221 - 260 mg/dL  6 units;
  - 261 - 300 mg/dL  8 units;
  - 301-350 mg/dL  10 units;
- greater than 350 mg/dL - Call Physician
- Initiate hypoglycemia protocol for glucose less than 70 mg/dL

Antiarrhythmics – Prophylaxis: Beta-Blockers
- metoprolol tartrate (LOPRESSOR)
  - 25 milligram orally 2 times a day Hold for heart rate less than 50 bpm- Give AM of surgery
- metoprolol succinate (TOPROL-XL)
  - 25 milligram orally once a day Hold for heart rate less than 50 bpm- Give AM of surgery

Chest Pain
- nitroglycerin 0.4 mg sublingual tablet (NITROSTAT)
  - 1 tablet sublingually as needed for chest pain May repeat every 5 minutes with max of 3 doses for a single chest pain episode within one hour; Hold for systolic blood pressure less than 90 mmHg. NOTIFY PROVIDER if given
- morphine
  - 2 milligram intravenously every 5 minutes as needed for chest pain not relieved by nitroglycerin (give up to MAX of 10 milligram); NOTIFY PROVIDER if given

* If patient is allergic to morphine: select meperidine
  - 10 milligram intravenously every 5 minutes as needed for chest pain (give up to MAX of 50 milligram)

Analgesics: Non-opioids
- acetaminophen (TYLENOL)
  - 650 milligram orally every 4 hours as needed for mild-to-moderate pain or fever greater than 101F
Antiemetics
metoclopramide (REGLAN)
☐ 10 milligram orally every 4 hours as needed for nausea/vomiting
☐ 10 milligram intravenously every 4 hours as needed for nausea/vomiting
ondansetron (ZOFRAN)
☐ 4 milligram orally every 4 hours as needed for nausea/vomiting unrelieved by metoclopramide
☐ 4 milligram intravenously every 4 hours as needed for nausea/vomiting unrelieved by metoclopramide

Bronchodilators: Inhalers
- Select the following if patient has a history of smoking within the last 2 months
  albuterol 90 microgram/inhalation aerosol (VENTOLIN)
  ☐ 3 puff inhaled, with spacer every 4 hours, while awake
  ipratropium 17 mcg/actuation aerosol inhaler (ATROVENT)
  ☐ 3 puff inhaled, with spacer every 4 hours, while awake

Vitamin and Mineral Supplements
ferrous sulfate (FERATAB)
☐ 325 milligram orally 3 times a day
vitamin C
☐ 2000 milligram orally once the night before surgery

Magnesium Supplements
- If creatinine is greater than 2.5; order alternative for magnesium sulfate
  magnesium sulfate
  ☑ 5 gram intravenously once for 3 hour Begin 2 hours before surgery

Lipid-Regulating Agents
- Select only if patient is not currently on a Statin
  atorvastatin (LIPITOR)
  ☐ 80 milligram orally once a day, at bedtime

Xanthine Oxidase Inhibitors
allopurinol (ZYLOPRIM)
☐ 300 milligram orally once a day

Platelet Inhibitors: Salicylates
aspirin
☐ 325 milligram orally once a day
Laboratory

- Order the following preoperative laboratory and diagnostic tests after review of medical records, history and physical exam, and procedure type ONLY if not included in anesthesia protocol

**Labs to be obtained now if not done in the past 7 days unless otherwise indicated:**

- MRSA/MSSA by PCR for all patients who will receive prophylactic antibiotics -May be obtained up to 30 days prior to surgery
- Hemoglobin A1c (HbA1c)
- CBC/AUTO DIFF
- Calcium level, serum, ionized
- PTT
- PT (protime and INR)
- UA/ Culture if indicated
- Comprehensive metabolic panel
- Blood gas study arterial, on room air
- Platelet aggregation
- Verify now aspirin
- Verify now P2Y12 (plavix)
- Magnesium (Mg) level, serum
- Phosphorus level, serum
- Type and screen -obtain with pre-op labs on all outpatients Special instructions: Open heart case

**Blood Bank**

- ALL blood products are leukoreduced, this attribute does not need to be ordered.
- If patient antibody screen is POSITIVE; obtain type and crossmatch the DAY BEFORE surgery
- If patient antibody screen is NEGATIVE; obtain type and crossmatch the DAY OF surgery
- Type and screen -obtain with pre-op labs on all outpatients Special instructions: Open heart case

PACKED CELL (TYPE & CROSS) [BBK]

- Quantity: 
- Quantity: 4 for all re-op procedures
- If product is for OR, when (if known) __________________________
- Additional Instructions for Blood Bank: if antibody screen is positive, crossmatch day prior to surgery

Platelets (BBK)

- Quantity: ________
- Quantity: ________
- If product is for OR, when (if known) __________________________
- Special Instructions for Blood Bank: Notify surgeon if less that 2 pheresis are available

FFP (BBK)

- Quantity: ________
- Quantity: ________
- If product is for OR, when (if known): __________________________
- Special Instructions for Blood Bank: ____________________________________

Initials__________
Radiology and Diagnostic Tests
- 12-lead ECG -Within 7 days of surgery; Reason for exam: age greater than 40
- CT, chest, without contrast routine Reason for exam:________________________
- US carotid doppler routine Reason for exam:________________________
- ECHO, transesophageal To be done during OR; Reason for exam: valvular function diagnostics

Consults
- Provider to provider notification preferred.
  - Consult other provider ___________________ regarding ____________________________
    Does nursing need to contact consulted provider? [ ] Yes [ ] No
  - Consult to cardiology ___________ regarding: ______________________________
    Does nursing need to contact consulted provider? [ ] Yes [ ] No
  - Consult to pulmonology ___________ regarding: ______________________________
    Does nursing need to contact consulted provider? [ ] Yes [ ] No
  - Consult to nephrology ___________ regarding: ______________________________
    Does nursing need to contact consulted provider? [ ] Yes [ ] No
  - Consult to care coordination to evaluate request for pre-op dental evaluation and home care
  - Consult to dentistry ___________ regarding: ______________________________
    Does nursing need to contact consulted provider? [ ] Yes [ ] No
  - Consult to anesthesiology regarding ______________________________
    Does nursing need to contact consulted provider? [ X ] Yes [ ] No Nursing to notify anesthesia when all other consults are completed