

(place patient label here)

Patient Name: \_\_\_\_\_



PROVIDER ORDERS

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Diagnosis: \_\_\_\_\_

Allergies with reaction type: \_\_\_\_\_

**Cardiovascular Surgery - Postoperative**

**Version 5 11/27/18**

**Patient Placement**

**Preferred Location/Unit**

- ICU

**Activity**

**Immediate Postop Phase**

- Bed rest with head of bed > 30 degrees and turn Q2H as tolerated
- Dangle feet at bedside 1-2 hours after extubation
- Out of Bed to chair 6 hours after admission if extubated, no bleeding and hemodynamically stable
- Out of Bed with flexible arterial line in place 1-2 hours after extubation if not contraindicated

**Progressive Postop Activity**

- Out of Bed TID minimum with meals progressing to minimum of 8 hours per day
- Ambulate QID minimum
- May shower when able, cover pacing wires with occlusive plastic wrap for shower

**Nursing Orders**

- Vital signs non unit standard: Q15min x 4, Q30min x 2 then Q1H and prn with all monitored pressures
- Intake and output STRICT Q15min x 4, Q30min x 2 then Q1H: Urine output and chest tube drainage
- Warming Blanket as needed for temp < 35.0 C
- Daily Weight
- ECG as needed for HR > 120 bpm (if not reduced with pain medication or sedation) or atrial fibrillation or any undiagnosed rhythm change
- XR Chest Single, portable as needed for change in condition
- Temporary Pacer attached and on standby until after up to chair x 1 and/or rhythm stable
- IF pulse < 60 bpm AND SBP < 90 mmHg and/or Cardiac Index < 2.0 Lpm: May pace at 80-100 beats per minute

**Notify provider**

- IF Temperature > than 38.5 F (101.5 F)
- IF Pulse < 55 bpm OR > 120 bpm
- IF Sustained SBP > 160 mmHg OR < 90 mmHg after volume replacement if ordered
- IF Oxygen Saturation < 90%
- IF PCWP < 10 or > 20
- IF CVP < 5 (after volume replacement if ordered) or > 20
- IF Chest Tube Drainage > 100 mL/hour per cavity
- IF Urine Output < 30 mL/hr x 2 hours OR < 15 mL/hr x 1 hour
- IF Cardiac Index < 2.0 Lpm
- IF Serum K+ < 3.0 or > 5.2
- IF Hematocrit < 28
- IF Platelets < 80,000
- IF pH < 7.35 or > 7.5 OR pO2 < 60 OR pCO2 < 30 or > 45
- Incision Care BID and as needed
  - Wash with hibiclens and sterile saline
  - Apply gauze to any sites with drainage and secure EXCEPT DERMABOND SITES
  - Apply new ace wrap toe to groin TID
  - Apply triple antibiotic ointment to chest tube sites while in place and draining (See MAR)
  - DERMABOND SITES: DO NOT APPLY TAPE OR SCRUB VIGOROUSLY
- Incentive spirometry every 1 hour post extubation
- IF patient unable to perform incentive spirometry adequately post extubation Notify provider for CPAP orders
- Aspiration Screening prior to oral intake. Nursing Instruction: Add to Intervention Worklist.

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**Drains and Tubes**

- Foley Catheter Insert/Maintain
- Nasogastric/orogastric tube insert/maintain to low intermittent suction; Irrigate with normal saline every 4 hours. Discontinue after extubation
- Chest Jackson Pratt to 20-40 cm wall suction as needed to maintain compression; Discontinue wall suction when drainage minimal and place to bulb suction; Assess for air leak and place to suction as needed for air leak Strip Q 1-4 Hours and as needed
- Chest Tube (all other) to 20 cm H2O suction Assess for air leak Strip Q 1-4 Hours and as needed
- Chest Tube- Sump to 80 cm wall suction Assess for air leak Strip Q 1-4 Hours and as needed
- Jackson Pratt (Leg) to bulb suction Strip every 4 hours and as needed for clotting
- Band all chest tubes prior to activity and tape securely
- IF femoral arterial line in place: Discontinue when hemodynamically stable Flexible femoral line = Bed rest x 4 hours post removal Cath lab femoral line = Bed rest x 8 hours post removal
- IF IABP femoral arterial line discontinued by provider: Bed rest x 12 hours post removal
- Obtain order for tube and line removal when the following criteria are met:
  - Chest tubes and JP's when drainage < 20 mL x 3 hours and no air leak
  - Central Lines when hemodynamically stable IF PIV access is present and patent
  - Arterial Line when hemodynamically stable
  - Discontinue Foley on post op day 2

**Respiratory**

- Continuous End Tidal CO2 Monitor while on ventilator
- Pulse oximetry continuous
- Initial ventilator settings per anesthesia

**Ventilator Protocols**

- Initiate Postop CVOR Ventilator Weaning Protocol
  - \*Wean FiO2 to as low as 40% keeping SaO2 > 92%
  - \*When patient is alert check respiratory parameters assessing for FVC > 10 mL/kg, RR < 25, TV > 5 mL.kg and NIF > -25
  - \*IF above parameters met and FiO2 < 60% place patient on CPAP and check ABG in 20 minutes
  - \* If pH 7.35-7.45 and pO2 > 60 and pCO2 < 45 then extubate and obtain ABG 20 minutes after extubation
  - \*If above parameters not met return patient to previous vent settings and Notify Provider (Cardiovascular Surgeon)

**Post Extubation**

- Oxygen Delivery RN/RT to Determine (Nasal Cannula or Aerosol Mask) Titrate to maintain Oxygen saturation greater than 90%

**Diet**

- NPO Diet until extubated
- Advance diet as tolerated to goal diet of: Heart Healthy (with Controlled Carbohydrate features if patient is diabetic) post extubation, House trays for first 3 days at 08, 12, 17

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**IV/ Line Insert and/or Maintain**

- Central line maintain
- Convert Peripheral IV to Saline Lock Saline lock all peripheral IV lines
- Arterial IV insert/maintain

**IV Fluids - Maintenance Specific Fluid**

Sodium Chloride 0.9% IV

- 10 milliliter/hour continuous intravenous infusion to central line ports as needed for carrier for drips

**Medications**

**Continuous Infusions**

nitroprusside (NITROPRESS) 50 mg in 250 mL

- 0.5 microgram/kilogram per minute continuous intravenous infusion Titrate to keep SBP < 120 mmHg and > 90 mmHg MAX 10 mcg/kg/min

propofol (DIPRIVAN) 10 mg/mL

- 5 microgram/kilogram per minute or CONTINUE RATE FROM OR continuous intravenous infusion; May titrate to max 80 microgram/kilogram per minute to achieve appropriate sedation level; DC prior to extubation

- Select for IMA:

nitroglycerin 25 mg in 250 mL

- 10 microgram/minute continuous intravenous infusion x 18 Hours

- Select for Radial Artery Grafts:

diltiazem (CARDIZEM) 125 mg in 125 mL

- 5 milligram/hour continuous intravenous infusion

**Infusions Continued from Surgery**

- Initial infusions per anesthesia and communicated by RN to Surgeon

milrinone (PRIMACOR) 20 mg in 100 mL

- \_\_\_\_ microgram/kilogram per minute continuous intravenous infusion CONTINUE RATE FROM OR; Wean and DC as needed for SBP > 90 mmHg and/or Cardiac Index > 2.0; Notify Provider if needing to titrate up

norepinephrine (LEVOPHED) 4 mg in 250 mL

- \_\_\_\_ microgram/minute continuous intravenous infusion CONTINUE RATE FROM OR; Wean and DC as needed for SBP > 90 mmHg and/or Cardiac Index > 2.0; Notify Provider if needing to titrate up

phenylephrine 20 mg in 250 mL

- \_\_\_\_ microgram/minute continuous intravenous infusion CONTINUE RATE FROM OR; Wean and DC as needed for SBP > 90 mmHg and/or Cardiac Index > 2.0; Notify Provider if needing to titrate up

DOBUTamine (DOBUTREX) 500 mg in 250 mL

- \_\_\_\_ microgram/kilogram per minute continuous intravenous infusion CONTINUE RATE FROM OR; Wean and DC as needed for SBP > 90 mmHg and/or Cardiac Index > 2.0; Notify Provider if needing to titrate up

DOPamine 400 mg in 250 mL

- \_\_\_\_ microgram/kilogram per minute continuous intravenous infusion CONTINUE RATE FROM OR; Wean and DC as needed for SBP > 90 mmHg and/or Cardiac Index > 2.0; Notify Provider if needing to titrate up

EPINEPHrine 4 mg in 250 mL

- \_\_\_\_ microgram/kilogram per minute continuous intravenous infusion CONTINUE RATE FROM OR; Wean and DC as needed for SBP > 90 mmHg and/or Cardiac Index > 2.0; Notify Provider if needing to titrate up

niCARDipine (CARDENE) 20 mg in 200 mL

- \_\_\_\_ milligram/hour continuous intravenous infusion CONTINUE RATE FROM OR; Wean and DC as needed for SBP > 90 mmHg and/or Cardiac Index > 2.0; Notify Provider if needing to titrate up (MAX 15 milligram/hour)

vasopressin (PITRESSIN) 100 unit in 250 mL

- \_\_\_\_ milligram/hour continuous intravenous infusion CONTINUE RATE FROM OR; Wean and DC as needed for SBP > 90 mmHg and/or Cardiac Index > 2.0; Notify Provider if needing to titrate up

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**Insulins: Continuous Infusions**

insulin regular 250 unit in 250 milliliter 0.9% Sodium Chloride IV

- Continue rate from OR and Initiate Insulin Drip Protocol  
Glucose Target Range: 120-180 mg/dL  
\*\*Prime tubing with 20 mL prior beginning infusion\*\*

DO NOT TITRATE 2 HOURS AFTER FIRST MEAL

DISCONTINUE INSULIN DRIP 2 HOURS AFTER FIRST MEAL IF INFUSING AT < 3 UNITS/HOUR

\*\* Consult pharmacist to calculate transition to SQ insulin BEFORE insulin drip is dc'd\*\*  
IF INFUSING AT > 3 UNITS/HOUR DO NOT DISCONTINUE AND NOTIFY PROVIDER

**Scheduled Medications**

**GI Agents**

famotidine (PEPCID)

- 20 milligram intravenously 2 times a day while NPO
- 20 milligram orally 2 times a day Begin when taking oral fluids

metoclopramide (REGLAN)

- 10 milligram intravenously every 6 hours x 48 hours (8 doses total IV or PO)
- 10 milligram orally every 6 hours x 48 hours (8 doses total IV or PO)

senna s (SENOKOT-S)

- 1 tablet orally once a day Begin postop day 1(HOLD for loose Stools)

bisacodyl (DULCOLAX)

- 10 milligram rectally once a day as needed no bowel movement by post op day 3 and patient eating  
(continue daily until results obtained and notify pharmacy to change to prn)

**Anti-infective Agents**

neomycin-bacitracin-polymyxin ointment (NEOSPORIN)

- applied topically 2 times a day : to chest tube sites while tubes in place and when draining

chlorhexidine gluconate 0.12% mouthwash (PERIDEX)

- 15 milliliter orally (swish and spit) 2 times a day with oral hygiene x 7 days total

**For Postop CABG Select One:**

**No Cephalosporin Allergy and No Anaphylaxis to Penicillin:**

ceFAZolin (ANCEF)

- 2 gram intravenously every 8 hours x 24 hours
- 3 gram intravenously every 8 hours (Select for patients greater than 120 kilogram) x 24 hours

**Cephalosporin Allergy OR Anaphylaxis to Penicillin OR unable to determine reaction type to Penicillin:**

clindamycin (CLEOCIN)

- 900 milligram intravenously every 8 hours x 24 hours

**For Postop Valve Select One:**

**No Cephalosporin Allergy and No Anaphylaxis to Penicillin:**

ceFAZolin (ANCEF)

- 2 gram intravenously every 8 hours x 48 hours
- 3 gram intravenously every 8 hours (Select for patients greater than 120 kilogram) x 48 hours

**Cephalosporin Allergy OR Anaphylaxis to Penicillin OR unable to determine reaction type to Penicillin:**

clindamycin (CLEOCIN)

- 900 milligram intravenously every 8 hours x 48 hours

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**Bronchodilators**

albuterol-ipratropium 2.5 mg-0.5 mg/3 mL soln for inhalation (DUONEB)

- 3 milliliter by nebulizer every 4 hours while intubated
- 3 milliliter by nebulizer 3 times a day post extubation

albuterol 2.5 mg/3 mL (0.083 %) solution for nebulization (VENTOLIN)

- 2.5 milligram by nebulizer every 4 hours while intubated
- 2.5 milligram by nebulizer 3 times a day post extubation

ipratropium 0.5 mg/2.5 ml neb solution (ATROVENT)

- 0.5 milligram by nebulizer every 4 hours while intubated
- 0.5 milligram by nebulizer 3 times a day post extubation

**Miscellaneous Agents**

metoprolol tartrate (LOPRESSOR)

- 25 milligram orally every 12 hours Hold for HR < 50 bpm or SBP < 100 mmHg

vitamin C

- 1000 milligram orally once a day x 5 days

allopurinol (ALOPRIM)

- 300 milligram orally once a day x 5 days

atorvastatin (LIPITOR)

- 80 milligram orally once a day, in the evening

**Anticoagulants**

aspirin

- 81 milligram orally once a day Begin postop day 1

warfarin (COUMADIN)

- \_\_\_\_\_ milligram orally once a day Begin postop day 1

clopidogrel (PLAVIX)

- 75 milligram orally once a day Begin postop day 1-hold for platelet count less than 90,000

**Post CVOR Atrial Fibrillation Protocol**

- IF Atrial Fibrillation: Initiate Post CVOR Atrial Fibrillation Protocol

amiodarone intravenous drip 1.8 milligram per milliliter (NEXTERONE)

- 150 milligram bolus over 10 minutes intravenously once as needed atrial fibrillation with heart rate > 100 and Systolic BP > 100 mmHg; Followed by continuous infusion

- 1 milligram/minute continuous intravenous infusion for x 6 hours (begin after bolus) then decrease infusion rate to 0.5 milligram/minute; Do not start if Heart Rate is less than 100 bpm or Systolic BP is less than 100 mmHg; If patient converts to normal sinus rhythm discontinue IV infusion and start oral per protocol below

diltiazem in normal saline 125 milligram/125 milliliter (CARDIZEM)

- 20 milligram bolus over 10 minutes intravenously once as needed IF 30 minutes after the amiodarone bolus the heart rate remains > 130 and Systolic BP > 100 mmHg; Followed by continuous infusion

- 5 milligram/hour continuous infusion Titrate by 5 milligrams per hour [MAX infusion rate: 15 milligram/hour, MAX infusion time: 24 hours] to goal Heart Rate of 90-100 bpm as long as Systolic PB remains greater than 100 mmHg; HOLD and CALL provider for Heart Rate less than 50 bpm and/or SPB less than 90 mmHg; If patient converts to normal sinus rhythm discontinue

- IF Heart Rate remains greater than 130 bpm after both amiodarone and diltiazem initiated OR if Systolic BP is less than 90 mmHg NOTIFY PROVIDER [Cardiologist]

- IF patient converts from atrial fibrillation to normal sinus rhythm: Discontinue amiodarone and diltiazem infusions and notify pharmacy to begin amiodarone (CORDARONE) 400 milligram orally BID x 3 days then 200 mg BID x 2 weeks

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**Unscheduled (PRN) Medications**

**Antihypotensives**

- Phenylephrine is ordered via separate standing order so that the medication is available immediately post-op (SO Cardiovascular Surgery Postop Phenylepherine)

Sodium Chloride 0.9%

- 1000 milliliter bolus intravenously once as needed CVP < 8 mmHg; Do not repeat

albumin, human 5%

- 250 milliliter intravenously as needed CVP < 8 mmHg; May repeat to MAX of 1000 mL

**Analgesics**

acetaminophen (TYLENOL)

- 500 milligram orally every 6 hours for 5 day then as needed for mild pain

morphine

- 2-5 milligram intravenously every 30 minutes as needed for severe pain MAX 10 milligrams per hour unless allergic

fentaNYL

- 25-50 microgram intravenously every 30 minutes as needed for severe pain if allergic to morphine

meperidine (DEMEROL)

- 12.5-25 milligram intravenously every 10 minutes as needed for shivering : not to exceed 50 milligrams in 4 hours

oxyCODONE (OXY IR) Immediate Release

- 5-10 milligram orally every 3 hours as needed for moderate-to-severe pain Begin when taking PO

**Anxiolytic Agents - Injectable**

diazepam (VALIUM)

- 2.5-5 milligram intravenously every hour as needed for agitation or anxiety

**GI Agents**

metoclopramide (REGLAN)

- 10 milligram intravenously every 4 hours as needed for nausea/vomiting (If not relieved use Ondansetron)

metoclopramide (REGLAN)

- 10 milligram orally every 4 hours as needed for nausea/vomiting (If not relieved use Ondansetron)

ondansetron (ZOFRAN)

- 4 milligram intravenously every 4 hours as needed for nausea/vomiting If not relieved notify Provider

alum-mag hydroxide-simeth (MINTOX)

- 15-30 milliliter orally every 4 hours as needed for dyspepsia

**Electrolyte Replacement**

- The following are to be administered via central line only
- Monitor for arrhythmia changes during all electrolyte replacement therapy

magnesium sulfate

- 2 gram in 50 mL intravenously over 60 minutes as needed for magnesium < 2.4

potassium chloride

- 30 milliequivalent in 100 mL intravenously over 60 minutes as needed for potassium < 3.4; IF potassium < 3.0 begin infusion and NOTIFY PROVIDER

- 20 milliequivalent in 100 mL intravenously over 60 minutes as needed for potassium 3.5 - 3.9

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**Laboratory**

**Immediate Postop**

- BASIC METABOLIC PANEL (BCS7)
- MAGNESIUM LEVEL, PLASMA
- CBC/ NO DIFF
- PT (PROTIME AND INR)
- PTT
- FIBRINOGEN
- Blood gas study: Arterial

**6 Hours Postop**

- BASIC METABOLIC PANEL (BCS7)
- MAGNESIUM LEVEL, PLASMA
- CBC/ NO DIFF

**Daily**

- CBC/ NO DIFF postop day 1,2 and 3
- BASIC METABOLIC PANEL (BCS7) postop day 1,2 and 3
- MAGNESIUM LEVEL, PLASMA postop day 1,2 and 3
- Blood gas study: Arterial daily while intubated
- Point of Care Capillary Blood Glucose 4 times a day, before meals and at bedtime begin prior to second meal and continue postop day 1, 2 and 3
- If on warfarin (COUMADIN) Select:
  - PT (PROTIME AND INR)

**Conditional/PRN**

**20 minutes after Vent changes involving TV and/or rate and as needed for condition change:**

- Blood gas study: Arterial

**As need for bleeding:**

- CBC/ NO DIFF
- PT (PROTIME AND INR)
- PTT
- FIBRINOGEN

**1 hour after electrolyte (K, Mg) replacement:**

- MAGNESIUM LEVEL, PLASMA
- POTASSIUM LEVEL, PLASMA

**1 hour after Packed Cells (PRBC) infused:**

- HH (HGB & HCT)

**1 hour after Platelets infused:**

- PLATELET COUNT

**1 hour after Cryo or FFP infused:**

- PT (PROTIME AND INR)
- PTT
- FIBRINOGEN

**Radiology and Diagnostic Tests**

- ECG routine following surgery and Postop Day 1; Reason for exam: Post op CVOR
- XR Chest Single, portable, routine once a day, in the morning postop day 1,2 and 3; Reason for exam: Post op CVOR

**Consult Provider**

- Provider to provider notification preferred.
  - Consult other provider \_\_\_\_\_ regarding \_\_\_\_\_  
Does nursing need to contact consulted provider? [ ] Yes [ ] No
  - Consult Hospitalist regarding \_\_\_\_\_  
Does nursing need to contact consulted provider? [ ] Yes [ ] No

**Consult Department**

- Consult Dietitian Reason for consult: heart healthy diet instruction
- Consult Cardiac Rehab Reason for consult: inpatient and outpatient education and activity
- PT Physical Therapy Eval & Treat Reason for consult: Post op CVOR -Start postop day 1
- OT Occupational Therapy Eval & Treat Reason for consult: Post op CVOR-Start postop day 1

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VTE Prophylaxis

Step 1: VTE Risk Assessment: SELECT ONE RISK CATEGORY

- LOW RISK- FEW PATIENTS FALL IN THIS CATEGORY** (Includes ambulatory patients WITHOUT additional VTE risk factors [see Appendix 1 for risk factors]) No specific measure required, early ambulation
  - Order for all LOW risk patients IF not already ordered.
    - Ambulate 3 times a day
- MODERATE RISK- ANY PATIENT NOT IN LOW RISK OR HIGH RISK CATEGORY-MOST PATIENTS FALL IN THIS CATEGORY** (Patients with one or more VTE risk factors)
- HIGH RISK- ANY PATIENT NOT IN LOW OR MODERATE RISK CATEGORY** (Includes: Elective major lower extremity arthroplasty, hip, pelvic or surgery, lower extremity fracture, acute spinal cord injury with paresis, multiple major trauma, abdominal or pelvic surgery for cancer)

Step 2: Order Prophylaxis

- Prophylaxis already addressed post-operatively- See post-op orders

➤ Pharmacological VTE Prophylaxis

- Order for MODERATE and HIGH risk patients unless contraindicated

- No pharmacological prophylaxis due to the following contraindications: SELECT ALL THAT APPLY

CONTRAINDICATIONS

Absolute

- Active hemorrhage or high risk for hemorrhage
- Severe trauma to head or spinal cord WITH hemorrhage in last 4 wks

Relative

- Craniotomy in last 2 weeks
- Intracranial hemorrhage in 12 mos.
- Intraocular surgery in last 2 wks
- GI, GU hemorrhage in last 30 days
- Thrombocytopenia (< 50,000)
- Coagulopathy (PT > 18 sec)
- Active intracranial lesions/ neoplasms
- Hypertensive emergency
- Post-op bleeding concerns
- Scheduled to return to OR in the next 24 hrs
- Epidural catheters or spinal block
- End stage liver disease

OTHER: \_\_\_\_\_

Medications

enoxaparin (LOVENOX)

- 40 milligram subcutaneously once a day
- 30 milligram subcutaneously once a day for impaired renal function- GFR less than 30 mL/min

heparin

- 5,000 unit subcutaneously every 12 hours
- 5,000 unit subcutaneously every 8 hours

- Select fondaparinux (ARIXTRA) ONLY IF suspected or known history of immune-mediated HIT OR allergy to enoxaparin (LOVENOX)

fondaparinux (ARIXTRA)

- 2.5 milligram subcutaneously once a day DO NOT USE if GFR less than 30mL/min
- Other Medication: \_\_\_\_\_

Laboratory

- CBC without differential every 3 days IF pharmacological prophylaxis is ordered

➤ Mechanical VTE Prophylaxis

- Order for HIGH risk patients and MODERATE risk patients without pharmacological prophylaxis

- No mechanical prophylaxis due to the following contraindications: SELECT ALL THAT APPLY

Mechanical Contraindications

- Bilateral lower extremity amputee
- Bilateral lower extremity trauma
- Other: \_\_\_\_\_

Intermittent pneumatic compression

- Sequential compression device (SCD)
- Arterial venous impulses (AVI)

Apply anti-embolic stockings (graduated)

- knee high
- thigh high

Provider Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_