

**CARDIAC SURGERY  
POST- OPERATIVE ORDERS**

ADMIT TO INPATIENT SERVICES: CCU

PROCEDURE DATE: \_\_\_\_\_ PROCEDURE: \_\_\_\_\_

ADMITTING SURGEON: \_\_\_\_\_ INTENSIVIST: \_\_\_\_\_

ALLERGIES:  NKA ALLERGIC TO: \_\_\_\_\_

Height (cm): \_\_\_\_\_ Weight (kg): \_\_\_\_\_

**CONSULTATIONS**

- Cardiologist \_\_\_\_\_
- Cardiac Rehabilitation
- Consult Pharmacy re: Medication Profile Review
- Dr. Hammoud/Bakleh for management of all Diabetic Patients
- PCP \_\_\_\_\_
- \_\_\_\_\_

**HEMODYNAMIC MONITORING:**

1. VITAL SIGNS: Every 15 minutes and PRN until extubated and stable/ may progress to every 30minutes or hourly if STABLE.
  2. DO NOT WEDGE SWAN
  3. Continuous monitoring – ECG, Arterial Line, Cardiac Index/Cardiac Output, pulse oximetry, PAP, CVP and SVO2
  4. Maintain these parameters. If not – call \_\_\_\_\_
- CVP \_\_\_\_\_  PAP \_\_\_\_\_  CO/CI \_\_\_\_\_  SVO2 \_\_\_\_\_
5. Temperature on admission and then hourly until temp 36.1C, then q4hrs and PRN. If temperature is below 36C, rewarm with BAIR Hugger/warm blankets
  6. FOLEY TO GRAVITY DRAINAGE
    - DISCONTINUE FOLEY ON POD 2 unless otherwise ordered and documented.
    - If no urine output 8 hours post foley removal bladder scan if >200mL straight cath
    - Notify provider if initial straight cath and bladder scan have been completed and patient still unable to void 6 hours post straight cath.
  7. INTAKE and OUTPUT q15min until patient extubated and then hourly.
    - Call \_\_\_\_\_ if urine output less than 30 mL/hr for 2 consecutive hours.

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## CARDIAC SURGERY POST- OPERATIVE ORDERS

8. CHEST TUBES – Connect to -20 cm water suction
- Measure and Record Chest Tube Output q15 min x2 hours, then q30 min x4 hours, then q1 hour
  - Call Surgeon/NP if CT output >200 ml/hr
9. EPICARDIAL PACEMAKER MONITORING (record thresholds every shift, keep temporary pacer attached x24 hours for CABG patients and x48hrs for valve patients)
- Pace as necessary for HR less than 60
  - DDD include AV interval and rate
  - AAI include Rate, Atrial MA and Ventricular MA
  - VVI – Rate 60, Ventricular MA 20
10. INTRA-AORTIC BALLOON PUMP MONITORING
- Set Pump at 1:1
  - Set Pump at 1:2
  - Set Pump at 1:3
  - Peripheral Pulse Check (while sheath or balloon in place) – q15minutes x2; q30minutes x2; then q1hour
11. NG/OG tube to low intermittent suction; remove NG/OG tube with extubation
12. DAILY WEIGHT at 0500 on same scale and record in kilograms
13. Soft Limb restraint- bilateral wrists while intubated x 24 hours to prevent injury

### DIAGNOSTICS

- STAT ABG, CBC with diff, CMP, APTT, PT/INR, Magnesium, Ionized Calcium on admission to CCU
- STAT portable CXR on admission to CCU and routine at 0700 daily while in CCU
- STAT EKG on admission and at 0400 on POD 1 and PRN with changes.
- CBC 3 and 6 hours POST OP
- APTT, PT/INR, CBC, CMP, Mg, Ionized Calcium – POD 1
- Daily – CBC, CMP, starting POD 2
- Hemoglobin and Hematocrit - 2 hours post all PRBC transfusions
- ABG PRN Respiratory Distress and/or hemodynamic instability – call physician if abnormal
- Daily PT/INR

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**BLOOD SUGAR PROTOCOL: FOR ALL PATIENTS**

- Glucometer Checks every 1 hour (even when drip is off) x 24 hours; call NP for further orders on non-diabetic patients after 24 hours
- Maintain Insulin infusion x 24 hours
- Initiate and titrate/manage insulin infusion utilizing the "Intravenous Insulin Order set and Adjustment Nomogram for Cardiac Surgery."
- Maintain blood sugar greater than 80 and less than 150 mg/dl.
- Resume insulin infusion if blood sugar is greater than or equal to **110 mg/dl**.
- Consult Endocrinology if blood glucose >180 mg/dl and not already on case.
- When patient is eating, initiate the following Prandial Insulin Scale based on current IV Insulin rate:

	Consumes >50% of Meal	Consumes 25-50% of Meal	Consumes < 25% of Meal
IV Insulin Infusion Rate units/hour	Insulin Lispro to be given within 10 minutes after breakfast, lunch, and dinner. Continue to follow IV Insulin Orders/Adjustment Guide with hourly glucose checks		
0-0.5 units/hour (or on HOLD)	3 units	2 units	0
1-1.5 units/hour	4 units	3 units	0
2-3 units/hour	6 units	4 units	0
4-5 units/hour	8 units	5 units	0
6-7 units/hour	10 units	6 units	0
8-10 units/hour	12 units	6 units	0
More than 10 units/hour	14 units	7 units	0

**MEDICATIONS:**

- Discontinue all pre-procedural medications. May utilize the TMO to specify all post-procedural medications.**

**Maintain systolic blood pressure between \_\_\_\_\_ or MAP between \_\_\_\_\_ for first 12 hours.**

**VASODILATORS**

- Clevidipine (Cleviprex) 2 mg/hr continuous infusion. Double dose every 90 seconds until approaching SBP goal, then increase by 1 mg/hr every 5 minutes. Max rate 21 mg/hr.
- Nitroglycerin 10 mcg/min continuous infusion. Increase by 5 mcg/min every 5 minutes to maintain goal SBP or MAP. (Max rate: 400 mcg/min)

**VASOPRESSORS**

- Norepinephrine 0.02 mcg/kg/min continuous infusion. Increase by 0.01 mcg/kg/min every 10 minutes to SBP goal. (Max dose 0.2 mcg/kg/min) Notify surgeon if dose increased by >50% starting dose.
- Dopamine 5 mcg/kg/min continuous infusion. Increase by 2.5 mcg/kg/min every 15 minutes until goal SBP or MAP is achieved. (Max dose: 20 mcg/kg/min)
- Epinephrine 0.01 mcg/kg/min continuous infusion. Increase by 0.01 mcg/kg/min every 10 minutes until goal MAP or SBP. (Max dose 0.1 mcg/kg/min) Notify Surgeon if dose increased by >50% starting dose

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INOTROPES

- Milrinone 50 mcg/kg bolus over 10 minutes then 0.375 mcg/kg/min continuous infusion. Increase by 0.125 mcg/kg/min every 15 minutes until goal CI (Max rate: 0.75 mcg/kg/min)
- Dobutamine 2.5 mcg/kg/min continuous infusion. Increase by 2.5 mcg/kg/min every 10 minutes until goal CI. (Max dose: 20 mcg/kg/min)

RENAL PERFUSION

- Dopamine \_\_\_ mcg/kg/min continuous infusion. Maintain infusion until discontinued by provider. Normal dosing: 2-5 mcg/kg/min

RADIAL/LIMA/RIMA ARTERY SPASMS

- Diltiazem 125 mg/125 mL (Dose: 5mg/hour, flat rate)
- Nitroglycerin 50 mg/250 mL (Dose: 5mcg/min, flat rate)
- Nifedipine (PROCARDIA XL) 30 mg PO daily start on POD1
- Amlodipine 5 mg PO daily start on POD 1
- Cardizem CD 120 mg PO daily start on POD 1
- Discontinue IV Diltiazem/Nitroglycerin after oral dose started

**ARRHYTHMIAS:** NOTIFY SURGEON/NP if patient develops atrial or ventricular arrhythmias; Initiate ACLS protocol if patient unstable. Obtain and document EKG strip.

**FOR ATRIAL FIBRILLATION/ ATRIAL FLUTTER** with a ventricular rate greater than 120 BPM and hemodynamically stable initiate following protocol:

- AMIODARONE PROTOCOL:** PRN A-Fib/Flutter with ventricular rate >120 BPM
  - Bolus Amiodarone 150 mg IVPB over 10 minutes
  - Start continuous IVPB infusion of Amiodarone 1 mg/min x 6 hrs then decrease to 0.5 mg/min X 18hours
  - Discontinue Amiodarone infusion if heart rate is less than 70 BPM
- DILTIAZEM (CARDIZEM) PROTOCOL:** PRN A-Fib/Flutter with ventricular rate >120 BPM
  - Bolus Diltiazem (CARDIZEM) 0.25 mg/Kg over 2 minutes – (Max dose 25 mg)
  - Start continuous IV infusion of Diltiazem (CARDIZEM) 125 mg/125 mL at 10 mg/hour
  - Titrate continuous IV infusion of Diltiazem (CARDIZEM) by 1 mg/hr every 15 minutes to maintain Heart Rate greater than 70 BPM and Less than 110 BPM (Max Dose 20 mg/hr)
  - Discontinue the Cardizem infusion if the Heart Rate is less than 70 BPM

IV FLUIDS/FLUID REPLACEMENT

- Volume Replacement – Give 500 mL Albumin IV over 1 hour x 2 doses-  
PRN Volume Replacement
- 1 unit PRBC if Hgb less than 7 – call Surgeon before transfusion of any blood products
- Lactated Ringers at 50 mL / hour –Use Normal Saline at 50 mL / hour if Hemodialysis patient x24hours
- Normal Saline at KVO
- Saline flush every 8 hours for peripheral lines

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SEDATION

Propofol (DIPRIVAN) 10 mcg/kg/min continuous infusion. Increase by 10 mcg/kg/min every 5 minutes until RASS score of -2. Maintain RASS score of -2 until hemodynamically stable and ready to wean (per weaning protocol); when weaning, decrease rate by 5 mcg/kg/min every 5 minutes to RASS score to 0; discontinue Propofol prior to extubation. Contact physician if a rate of 90 mcg/kg/min is achieved.

ANALGESICS

**MILD PAIN (Scale 1-3)**

Acetaminophen (OFIRMEV) 1000 mg IV given over 15 minutes – every 8 hours x 24 hours. (max dose of acetaminophen 3 gm/day); THEN Acetaminophen 650mg PO q6 hours PRN pain/fever (max dose 3GM/day)

**MODERATE PAIN (Scale 4-6)- select only one**

- Ultram 50 mg 1 tab PO every 4 hours once able to take oral pain medication
- Oxy IR 5 mg, 1 tab PO every 4 hours once able to take oral pain medication.
- Ketorolac (TORADOL) 15 mg IVP every 6 hours PRN for moderate pain x 4 doses. Hold for a Creatinine > 1.4

**SEVERE PAIN (Scale 7-10) While Intubated- select only one**

- Morphine 2 mg IVP every 2 hours PRN: may repeat 2 mg IVP in 15 minutes if severe pain unrelieved x 1 while intubated
- Dilaudid 0.5 mg IVP every 2 hours PRN for severe pain while intubated
- Fentanyl 50 mcg IVP every 2 hours as needed for severe pain while intubated

**SEVERE PAIN (SCALE 7-10)- Post Extubation**

Oxy IR 5 mg 2 tabs every 4 hours for severe pain once able to take oral pain medications.

**BREAKTHROUGH PAIN- Post-Extubation- select only one**

- Morphine 2 mg IVP every 2 hours PRN: may repeat 2 mg IVP in 15 minutes if severe pain unrelieved for break through pain post extubation
- Dilaudid 0.5 mg IVP every 2 hours PRN for severe pain for break through pain post extubation
- Fentanyl 50 mcg IVP every 2 hours as needed for severe pain for break through pain post extubation.

PROPHYLACTIC ANTIBIOTICS

Pharmacy to Dose

Cefazolin (KEFZOL) – 2 gm (or 3 gm if patient ≥120kg)

DATE/TIME DOCUMENTED BY ANESTHESIA:

**PRE OP DOSE:** \_\_\_\_\_ **INTRA-OP DOSE (if given):** \_\_\_\_\_

Give 1st post op dose 4 hours after intra op dose (OR 8 hours after pre-op dose, if no intra op dose given) and then repeat every 8 hours x 4 additional doses to be discontinued within 48hours of surgery end time

Give 1st post op dose 4 hours after intra op dose (OR 8 hours after pre-op dose, if no intra op dose given) and then repeat every 8 hours x 2 additional doses.

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**IF ALLERGIC TO CEPHALOSPORIN or PENICILLIN:**

Vancomycin –1000 mg (or 1500 mg for patient  $\geq 100$  kg) - run over 90 minutes – First dose given in surgery by anesthesia when cardiopulmonary bypass completed:

DATE/TIME DOCUMENTED BY ANESTHESIA \_\_\_\_\_

- Repeat every 12 hours x 3 additional doses to be discontinued within 48 hours of surgery end time.
- Repeat every 12 hours x 2 additional doses

**IF NASAL CULTURE POSITIVE FOR MRSA OR URGENT CASE WITH NO MRSA SWAB RESULTED- GIVE KEFZOL IN ADDITION TO:**

Vancomycin –1000 mg (or 1500 mg for patient  $\geq 100$ kg)- IVPB to run over 90 minutes – 12 hours after pre-op

Vancomycin IVPB dose given.

DATE/TIME DOCUMENTED BY ANESTHESIA \_\_\_\_\_

BETA-BLOCKER (Hold if SBP less than 100 or HR less than 60) – START on POD 1

Metoprolol (LOPRESSOR)  12.5 mg PO/OG every 12 hours

Other \_\_\_\_\_

Carvedilol (COREG)  3.125 mg PO/OG every 12 hours

Other \_\_\_\_\_

Beta-blocker contraindicated due to: \_\_\_\_\_

STATIN

Atorvastatin (LIPITOR) 40 mg PO/OG daily

Pravastatin \_\_\_\_\_ PO/OG daily

Other \_\_\_\_\_

ANTIEMETICS/GASTROINTESTINAL

Ondansetron (ZOFTRAN) 4 mg IVP every 6 hours PRN for nausea.

Metoclopramide (REGLAN) 10 mg IVP every 4 hours PRN nausea/vomiting, if Zofran ineffective.

Famotidine 20 mg IVP BID until extubated; then Famotidine 20 mg PO BID

BOWEL ROUTINE – TO START POD 1

Senna Concentrate/Docusate (SENOKOT S) 2 tablets PO every day

Bisacodyl (DULCOLAX) suppository every day PRN and in AM of POD 3 if no BM

Magnesium Hydroxide (MILK OF MAGNESIA) BID PRN and in AM of POD 4 if no BM

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VTE PROPHYLAXIS

- Heparin 5000 Units subcutaneously every 8 hours to start 8 hours after surgery, Hold if active bleeding or platelet count <100,000
- Arixtra (FONDAPARINUX) 2.5 mg subcutaneous daily to start on POD 1 (Contraindicated if CrCl <30), reserved for patients with Heparin allergy, active or suspected HIT.
- Intermittent Pneumatic Compression Device (IPC) worn at all times.
- Anti-embolic bilateral knee-high leg stockings

PLATELET INHIBITORS

- Aspirin –325 mg PO daily; start on POD 1
- Aspirin 300 mg Supp Rectally Once on arrival to CCU, while intubated
- Clopidogrel (PLAVIX) 75mg PO daily; start on POD 1

OTHER

- Cepacol Lozenges PO PRN for sore throat
- Hydralazine 10 mg IVP every 1 hour PRN for SBP >160 (use when trying to wean Cleveprex and/or Nitro drips or if reaching max doses of Cleveprex and/or Nitro drips).
- Alprazolam (XANAX) 0.25 mg BID PRN for anxiety
- Amiodarone 200 mg PO BID
- Other \_\_\_\_\_
- Other \_\_\_\_\_
- Other \_\_\_\_\_

**ELECTROLYTE REPLACEMENT:**

**HOLD ELECTROLYTE REPLACEMENT PROTOCOL FOR DIALYSIS PATIENTS**

**IV Potassium Protocol (normal range 3.6-5.2 mEq/L)**

Potassium Level (mEq/L)	Potassium Chloride Dose Infusion Rate		Repeat K Level
	Central access with cardiac monitor	Peripheral IV access or central access without cardiac monitor	
Less than 3.2- Notify Physician	20 mEq/100 mL over 1 hour x 3 doses	10 mEq/100 mL over 1 hour x 6 doses	30 minutes after last dose infused
3.3-3.5	20 mEq/ 100 mL over 1 hour x 2 doses	10 mEq/ 100 mL over 1 hour x 4 doses	Next AM
3.6-3.9	20 mEq/ 100 mL over 1 hour x 1 dose	10 meq/100 mL over 1 hour x 2 doses	Next AM
Greater than 3.9	No treatment	No treatment	

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**Magnesium Protocol (normal range 1.5-2.6 mg/dL) (non-obstetrical use)**

Magnesium Level (mg/dL)	Magnesium Dose	Repeat Mg and Scr Level
Less than 0.8 - notify physician	2 gram Magnesium Sulfate IV x 4 doses	Next AM
0.8-1.1	2 gram Magnesium Sulfate IV x 3 doses	Next AM
1.2-1.4	2 gram Magnesium Sulfate IV x 2 doses OR 400 mg magnesium oxide by mouth every 4 hours x 2 doses	Next AM
1.5-1.9	2 gram Magnesium Sulfate IV x 1 OR 400 mg Magnesium oxide by mouth x 1 dose	Next AM

\*IV replacement with 1 gram magnesium sulfate in 100 mL D5W for peripheral administration or 2 grams magnesium sulfate in 50 mL D5W for fluid restricted patients or central line administration, to be administered at a rate not to exceed 16 mEq (2 grams) per hour (or 1 gram per 30 minutes)

**\*\*If Serum Creatinine is greater than 2 mg/dL, use ½ the dose**

**Calcium Gluconate Protocol**

Ionized Calcium	IV Calcium Gluconate Replacement and monitoring
Less than 0.9	28.2 mEq (6 gm) Calcium Gluconate IVPB over 6 hours; repeat ionized calcium 2 hours post dose and follow algorithm
0.9-0.99	18.8 mEq (4 gm) Calcium Gluconate IVPB over 4 hours; repeat ionized calcium 2 hours post dose and follow algorithm
1-1.1	9.4 mEq (2 gm) Calcium Gluconate IVPB over 2 hours; check ionized calcium next AM

\* Infusion rate not to exceed 1 gm/hour Calcium Gluconate

**\*\*If GFR less than 30 mg/dL check phosphate. If phosphate greater than 7 mg/dL contact provider before replacing calcium**

**RESPIRATORY: VENTILATION, WEANING & EXTUBATION PROTOCOL**

- GOAL: Extubation within 24 hours, with ultimate goal within 6 hours if possible.
- Maintain the following parameters:
  - pH 7.32 - 7.48 (Notify physician if pH less than 7.25 or greater than 7.50)
  - PaCO<sub>2</sub> 32 - 50 mmHg
  - PaO<sub>2</sub> 60 - 150 mmHg
  - SPO<sub>2</sub> greater than 92%
  - Cl greater than 2
  - HCO<sub>3</sub> greater than 18 mMol/ L
- If patient awakes from anesthetic agitated and with a high respiratory rate greater than 24 bpm, change ventilator settings to PRVC at the same rate and FIO<sub>2</sub>, give sedation.
- Wean FIO<sub>2</sub> as tolerated to keep SpO<sub>2</sub> greater than 92%
- EzPAP with unit dose Albuterol every 4 hours.
  - Respiratory Therapy to assess and evaluate the need for EzPAP or SVN.

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- When patient fully awake, assess if patient meets the following criteria to wean
  - Hemodynamically stable
  - Temp greater than 36.1° F
  - Follow commands and communicates with meaningful gestures/nodding
  - No active bleeding
- If patient meets above criteria contact physician prior to weaning
- Start the ventilator weaning process by placing the ventilator to CPAP at 5 and PS (Pressure support) at 10, and current FIO<sub>2</sub>. Repeat ABGs 30 minutes after each change.
- Target ventilation parameters to include:
  - Respiratory rate less than 25 breaths per minute
  - Tidal volume 3 - 4 mL /kg ideal body weight
  - RSBI (Rapid shallow breathing index) less than 105
- When CPAP and ABG parameters are within range call the intensivist for extubation orders. Monitor oxygen saturation with pulse oximetry and adjust to maintain 92% saturation.

**If patient not extubated, return to prior ventilator settings and restart CPAP trial in am.**

### POST EXTUBATION

- All patients with BMI >30 need to be placed on Auto Bipap immediately after extubation for 4-6 hours and THEN nightly for at least 2 nights
- Extubate ALL patients with BMI >30 to Auto Bipap – Max IPAP 12, Min EPAP 4, PS 4
- Extubate ALL patients with BMI >35 to Auto Bipap – Max IPAP 14, Min EPAP 6, PS 4 for at least 2 nights.
- Incentive Spirometer 10 times every hour DOCUMENT how many MLs patients was able to achieve– deep breathing and coughing on all patients
- EzPAP with unit dose Albuterol every 4 hours.
  - Respiratory Therapy to assess and evaluate the need for EzPAP or SVN.
- ABG PRN Respiratory Distress – call surgeon and intensivist if abnormal
- Maintain SPO<sub>2</sub> ≥ 92%

### INCISION CARE:

- Remove chest dressing in am
- Clean incisions, chest tube sites, pacer wire sites every 12hours with Chlorhexidine, DO NOT rinse; if DermaBond used on incision – wash with soap and water, do not use Chlorhexidine
- Reapply chest dressing after each cleansing and document date, time and initials
- Remove leg/arm incision bandage and/or ace wrap on POD 1
- CHG bath daily in CCU
- Heart Hugger ALL male patients – Apply and Maintain
- Surgical Bra ALL female patients – Apply and Maintain

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**DIET:**

NPO until 1 hours post extubation, then perform bedside swallow eval, ice chips as tolerates, then advance diet as tolerated with PO fluid restriction of 1,500 mL/24 hours. If patient is Diabetic, order the following diet – Women 1,500 Calorie, Men 1800 Calorie

**ACTIVITY:**

- Bedrest. Dangle if hemodynamically stable and extubated the night of surgery. Progress to up in chair by POD 1.
- POD 1 – Up to Chair TID -Ambulate in afternoon if no femoral arterial line present
- POD 2 – Up to Chair TID, Ambulate in hall TID
- POD 3 – Up to Chair TID, Ambulate in hall TID

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