

Physician Orders

LEB ECMO Plan

PEDIATRIC

Height: _____ cm Weight: _____ kg

Allergies: _____ [] No known allergies

Vital Signs	
[]	Vital Signs w/Neuro Checks T;N, q1h(std)
Food/Nutrition	
[]	NPO Start at: T;N
Patient Care	
[]	Consent Signed For T;N, Procedure: ECMO, Verify that consent form is complete and on chart.
[]	Isolation Precautions T;N, Isolation Type: _____
[]	Strict I/O T;N, Routine, q1h(std)
[]	Fluid Allowance T;N, Total Fluids to equal (_____ mL per kg per day) = _____ mL per hour
[]	Radiant Warmer Apply T;N
[]	Hepwell Insert/Site Care LEB T;N, Routine, q2h(std)
[]	Replogle (NGT) T;N, Suction Strength: To Gravity
[]	Replogle (NGT) T;N, PRN, Irrigate, with normal saline
[]	Replogle (OGT) T;N, To gravity drainage
[]	Oral Gastric Tube Insert (Replogle (OGT)) T;N, PRN, Irrigate with normal saline
[]	Suction Patient T;N, q2h(std), Endotracheal Tube
[]	Suction Patient T;N, PRN, Endotracheal Tube
[]	Chest Percussion Therapy Nsg T;N, q4h(std)
[]	Cardiopulmonary Monitor T;N Routine, Monitor Type: CP Monitor
[]	O2 Sat Monitoring NSG T;N, maintain O2 sat ____% to ____%
[]	ECMO Communication T;N, Each shift verify that 1 unit PRBCs is available in the blood bank.
[]	ECMO Communication T;N, Complete ECMO Checklist q shift.
[]	ECMO Communication T;N, STAT, Draw ACT POC (RT Collect) from patient for baseline, then draw q1h and PRN (for changes in patient status) from ECMO circuit.
[]	ECMO Communication T;N, draw ISTAT CG8 tests from ECMO Circuit after blood primed and PRN for changes in patient's status, draw from ECMO Circuit
[]	ECMO Communication T;N, T;N Obtain ISTAT CG8 tests q6h and PRN for changes in patient status, draw from patient
[]	ECMO Circuit Parameters T;N, Adjust ECMO Blood Flow: Adjust (VA ECMO) to maintain patient PO2 _____ mmHg to _____ mmHg, ECMO Sweep Gas: Adjust ECMO sweep gas to maintain patient PCO2 _____ mmHg to _____ mmHg
[]	ECMO Transfusion Parameters T;N, Transfuse Platelets: If platelet count is less than _____, place order to Transfuse Platelets _____ mL (_____ mL/kg) and administer over 1 hour.
[]	ECMO Transfusion Parameters T;N, Transfuse PRBCs: If HCT is less than _____, place order to Transfuse PRBCs Less Than 4 Months _____ mL (_____ mL/kg) and administer over 1 hour.
[]	ECMO Transfusion Parameters T;N, Transfuse PRBCs: If HCT is less than _____, place order to Transfuse PRBC _____ mL (_____ mL/kg) and administer over 1 hour.



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Respiratory Care	
<input type="checkbox"/>	ECMO Resting Ventilator Settings T; N, Rate _____, PIP _____, PEEP _____, FiO2 _____, Nitric Oxide _____ ppm
<input type="checkbox"/>	ECMO Emergency Ventilator Setting T; N, Rate _____, PIP _____, PEEP _____, FiO2 _____, Nitric Oxide _____ ppm
Continuous Infusions	
<input type="checkbox"/>	1/4 NS (Pediatric) 1 ml/hr, Injection, IV, Routine, T;N, for Pressure Lines, No heparin added to line fluids
<input type="checkbox"/>	1/4 NS (Pediatric) _____ mL, Injection, IV, For medication flushes, Routine, T;N, for Pressure Lines, No heparin added to line fluids
<input type="checkbox"/>	Heparin drip (Pediatric) 25 units/kg/hr, Injection, IV, Routine, T;N, Titrate heparin per protocol to maintain an ACT of _____ seconds or an APTT of _____ seconds
<input type="checkbox"/>	D5 1/2 NS 1,000mL, IV, Routine, T;N, at _____ mL/hr
<input type="checkbox"/>	D5 1/4 NS 1,000mL, IV, Routine, T;N, at _____ mL/hr
<input type="checkbox"/>	D5 1/2 NS KCl 20 mEq/L 1,000mL, IV, Routine, T;N, at _____ mL/hr
<input type="checkbox"/>	D5 1/4 NS KCl 20 mEq/L 1,000mL, IV, Routine, T;N, at _____ mL/hr
Medications	
<input type="checkbox"/>	thrombin topical 20,000 units kit 20,000 units, Topical Soln, TOP, PRN, PRN, Routine, T;N for bleeding at ECMO cannula site(s).
<input type="checkbox"/>	aluminum-magnesium hydroxide 5 mL, Oral Susp, NG, q4h, PRN, Routine, T;N, May also be given via OG, for gastric pH less than 4 and/or occult blood +.
<input type="checkbox"/>	vecuronium _____ mg, (0.1 mg/kg), Injection, IV, once, Routine, T;N, For cannulation
<input type="checkbox"/>	fentaNYL _____ mcg, (1 mcg/kg), Injection, IV, once, Routine, T;N, For cannulation
*Note: Please Order Ranitidine If Patient Is NPO	
<input type="checkbox"/>	famotidine 0.25 mg/kg, Injection, IV, q12h, Routine, T;N, Max dose = 40 mg/day
*Note: Order Medications Below For 1/4" ECMO Circuit Prime	
<input type="checkbox"/>	tromethamine 50 mL, Injection, Device, once, STAT, T;N
<input type="checkbox"/>	calcium chloride 600 mg, Injection, Device, once, STAT, T;N
<input type="checkbox"/>	albumin 25% 50 grams, Injection, Device, once, STAT, T;N
*Note: Order Medications Below For 3/8" ECMO Circuit Prime	
<input type="checkbox"/>	tromethamine 75 mL, Injection, Device, once, STAT, T;N
<input type="checkbox"/>	calcium chloride 900 mg, Injection, Device, once, STAT, T;N
<input type="checkbox"/>	heparin 300 units, Injection, Device, once, STAT, T;N
<input type="checkbox"/>	albumin 25% 75 grams, Injection, Device, once, STAT, T;N
*Note: Please Order between 25 and 50 units per kg heparin bolus	
<input type="checkbox"/>	heparin _____ units/kg, Injection, Device, PRN, PRN Other Specify in Comment, STAT, T;N, For cannulation, Concentration: 100 units/mL
Laboratory	
LEB ECMO Daily Lab and Diagnostic Plan	
<input type="checkbox"/>	TEG-LeBonhuer (Thrombelastograms LeBonhuer) STAT, T;N, M, TH, Type: Blood, Nurse Collect, Comment: During Duration of ECMO
<input type="checkbox"/>	CBC STAT, T;N, once, Type: Blood, Nurse Collect, Comment: Prior to initiation of ECMO
<input type="checkbox"/>	Prothrombin Time (PT) STAT, T;N, once, Type: Blood, Nurse Collect, Comment: Prior to initiation of ECMO
<input type="checkbox"/>	Partial Thromboplastin Time (PTT) STAT, T;N, once, Type: Blood, Nurse Collect, Comment: Prior to initiation of ECMO

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Laboratory continued		
<input type="checkbox"/>	Fibrinogen Level	STAT, T;N, once, Type: Blood, Nurse Collect, Comment: Prior to initiation of ECMO
<input type="checkbox"/>	CMP	STAT, T;N, once, Type: Blood, Nurse Collect, Comment: Prior to initiation of ECMO
<input type="checkbox"/>	Magnesium Level	STAT, T;N, once, Type: Blood, Nurse Collect, Comment: Prior to initiation of ECMO
<input type="checkbox"/>	Direct Bilirubin	STAT, T;N, once, Type: Blood, Nurse Collect, Comment: Prior to initiation of ECMO
<input type="checkbox"/>	Phosphorus Level	STAT, T;N, once, Type: Blood, Nurse Collect, Comment: Prior to initiation of ECMO
<input type="checkbox"/>	HIV Antibody Screen	STAT, T;N, once, Type: Blood, Nurse Collect, Comment: Prior to initiation of ECMO
<input type="checkbox"/>	Hepatitis B Surf Antigen	STAT, T;N, once, Type: Blood, Nurse Collect, Comment: Prior to initiation of ECMO
<input type="checkbox"/>	Hepatitis C Virus Abs	STAT, T;N, once, Type: Blood, Comment: Prior to initiation of ECMO
Transfusion Orders		
<input type="checkbox"/>	Transfuse FFP-Pediatric	STAT, T;N
<input type="checkbox"/>	Transfuse Platelets-Pediatric	STAT, T;N, Leukoreduced and Irradiated
<input type="checkbox"/>	Transfuse Cryoprecipitate-Pediatric	Routine, T;N, Leukoreduced
NOTE: If patient 4 months of age or greater order from the following:		
<input type="checkbox"/>	Type and Screen <4 months(DAT included)	Routine, T;N, Type: Blood
<input type="checkbox"/>	Transfuse PRBC <4 Months	STAT, T;N, Volume: 3 units, Special Needs: Irradiated, send to bedside in cooler for ECMO prime
<input type="checkbox"/>	Hold PRBC <4 Months	Routine, T;N, Status: to Hold, Special Needs: Irradiated, on hold while patient on ECMO
If patient 4 months of age or greater order from the following:		
<input type="checkbox"/>	Type and Screen Pediatric	Routine, T;N, Type: Blood
<input type="checkbox"/>	Type and Crossmatch Pediatric >4 months	Routine, T;N, Special Needs: Leukoreduced and Irradiated, Type: Blood
<input type="checkbox"/>	Transfuse PRBC >4 months	STAT, T;N, 3 units, Special Needs: Irradiated, Type: Blood, Comment: send to bedside in cooler for ECMO prime
<input type="checkbox"/>	Hold PRBC >4 months	Routine, T;N, Reason: hold, Special Needs: Leukoreduced and Irradiated, Comment: On Hold while patient on ECMO
Diagnostic Tests		
<input type="checkbox"/>	Chest 1VW Frontal (CXR Portable)	T;N,STAT,Reason:_____, Transport:Portable, prior to initiation of ECMO
<input type="checkbox"/>	Chest 1VW Frontal (CXR Portable)	T;N, Reason for Exam: Other, Enter in Comments, Routine, Portable, Reason: verification of ECMO cannula placement
<input type="checkbox"/>	US Head Neonatal/Echoencephalogram	T;N,STAT,Reason:_____, Transport:Portable, prior to initiation of ECMO
<input type="checkbox"/>	Echocardiogram Pediatric (0-18 yrs)	T;N, STAT, Reason:_____, Transport: portable, prior to initiation of ECMO

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Consults/Notifications		
<input type="checkbox"/>	Notify Physician-Continuing	T;N, For: mean arterial pressure greater than _____ or less than _____, Who: _____
<input type="checkbox"/>	Notify Physician-Continuing	T;N, For: _____, Who: _____
<input type="checkbox"/>	Notify Physician-Once	T;N, For: _____, Who: _____
<input type="checkbox"/>	Nutritional Support Team Consult	Start at: T;N, Stat, Reason: Total Parenteral Nutrition
<input type="checkbox"/>	Consult Clinical Pharmacist	Start at: T;N, Reason: Concentrate all drips, Special Instructions: ECMO patient
<input type="checkbox"/>	Consult Clinical Dietitian	T;N, Reason: _____
<input type="checkbox"/>	Lactation Consult	T;N, Reason: _____
<input type="checkbox"/>	Consult Medical Social Work	T;N, Reason: Other, specify, Family needs
<input type="checkbox"/>	Consult Child Life	T;N

Date

Time

Physician's Signature

MD Number