

Patient Addressograph

Note: These orders apply to newborn to 16 years; intended for care provided within a Pediatric/Neonatal Intensive Care Unit. Dosages and infusion rates listed below reflect those used at BC Children's Pediatric ICU and apply to children less than or equal to 60 kg, beyond which adult dosing should apply. **Contact BC Children's Hospital PICU 604-875-2133 for any questions.**

Contact BC Children's H	ospilai Pico 604-675-2133 for any qu	estions.
☑ = Always applicable □	= Check if applicable	
Date:	Time:	
✓ Neurological Determina✓ Contact initiated with Both	ition of Death (NDD) has been performe C Transplant	d (by 2 <u>attending</u> physicians)
	ation obtained by BCT coordinator py except cardiopulmonary resuscitatior	1
MONITORING		
 ✓ Complete patient <u>actual</u> <u>www.transplant.bc.ca</u>) ✓ Urine output q1h ✓ HR, BP, temperature, p 	nl height and weight. Record on BCT Ph nulse oximetry q1h	ysical Assessment Form (available on
✓ Arterial pressure monitor		<u>General Targets:</u>
device		 Age-related norms for pulse and blood pressure (BP) CVP 6 to 10 mmHg (fluid resuscitation to maintain normovolemia) Urine Output 0.5 to 3 mL/kg/h Hemoglobin (Hgb): above 70 g/L
not tolerated		
LABORATORY INVESTIGE ✓ Send blood for tissue ty ✓ Blood Type/Screen	GATIONS oping and serology (use BC Transplant "	Red Blood Box")
	g8h rb, SCr, Urea, eGFR, Ca, Mg, PO4, Lac , ALT, TBil, DBil, ALP, GGT, LDH, Total	

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☑ Albumin, Amylase/Lipase, CK, Troponin (I or T)



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✓ Monitor platelet le✓ Urinalysis includir	evel. Notify physing specific gravit	g/L. Notify physician and BC T ician and BC Transplant if plate y, routine and micro baseline a CR) ratio baseline and prn as i	elet level <10 (cor and Q24h	nsider transfusion)	
<u>DIAGNOSTICS</u>					
✓ Echocardiogram☐ CT of chest and☐ Bronchoscopy (if	after declaration abdomen (only in requested by B	f requested by BC Transplant,	suscitation (and re High resolution –	epeat if requested by BC Transpla	ınt)
NUTRITION					
		d. Initiate unless contraindicate consult dietician for direction	d. (Hold feed 8 ho	ours prior to recovery surgery)	
INTRAVENOUS					
☑ Total fluid intake	atmL/r	1			
☑ Fluid type:					
(As per standar	d fluid managem	ent protocols – 80% maintena	nce)		
	imize PEEP and	lung recruitment for individual and chest physio (as per site p	-		
	nical ventilation	as per previous orders			
☐ Mechanical ventil	ation as follows:				
✓ Adjust FiO2 to m effective FiO2.	aintain SaO2 gr	eater than or equal to 95% Mai	ntain PaO2 great	ter than 70 mmHg with minimal	
☑ Maintain pH 7.35	to 7.45				
☐ Recruitment man frequency)	oeuvers: PRN a	nd after all circuit disconnects ((Consult site polic	cy for procedure and BCT for direc	tion on
☐ <u>O2 challenge</u> : 10	0% FiO2 on curr	ent PEEP for 10 minutes initial	and q6h		
Recruitment	challenge prior t	o O2 challenge if tolerated			
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MEDICATIONS

Hemodynamic Monitoring and Therapy:

Heart Rate				Respiratory Rate		
Normal Heart Rate by Age (beats/minute) Reference: PALS Guidelines, 2015				Normal Respiratory Rate by Age (breaths/minute)		
Age	Awake	Sleeping		Reference: PALS Guidelines, 2015		
Age	Rate	Rate		Age	Normal Respiratory	
Neonate (<28 d)	100-205	90-160		Age	Rate	
Infant (1 mo-1 y)	100-190	90-160		Infants (<1 y)	30-53	
Toddler (1-2 y)	98-140	80-120		Toddler (1-2 y)	22-37	
Preschool (3-5 y)	80-120	65-100		Preschool (3-5 y)	20-28	
School-age (6-11 y)	75-118	58-90		School-age (6-11 y)	18-25	
Adolescent (12-15 y)	60-100	50-90		Adolescent (12-15 y)	12-20	
Disad Bussess						

Blood Pressure				
Normal Blood Pressure by Age (mm Hg) Reference: PALS Guidelines, 2015				
Age	Systolic Pressure	Diastolic Pressure	Systolic Hypotension	
Birth (12 h, <1000 g)	39-59	16-36	<40-50	
Birth (12 h, 3 kg)	60-76	31-45	<50	
Neonate (96 h)	67-84	35-53	<60	
Infant (1-12 mo)	72-104	37-56	<70	
Toddler (1-2 y)	86-106	42-63	<70 + (age in years x 2)	
Preschooler (3-5 y)	89-112	46-72	<70 + (age in years x 2)	
School-age (6-9 y)	97-115	57-76	<70 + (age in years x 2)	
Preadolescent (10-11 y)	102-120	61-80	<90	
Adolescent (12-15 y)	110-131	64-83	<90	

Reference: from https://www.pedscases.com/pediatric-vital-signs-reference-chart

Notify physician if outside of general target parameters

Management of Hypotension: Target BP:/				
Pediatric patients will often be on epinephrine due to cardiac instability. The cardiac transplant programs preference is for this to be transitioned to alternative agents for maintaining normal blood pressures.				
□ vasopressinmilliunit/kg/min (0.3 to 2 milliunit/kg/min) IV infusion Max. dose: 40 milliunit/min □ NORepinephrinemcg/kg/min IV infusion (0.01 to 0.2 mcg/kg/min; caution with doses greater than 0.2 mcg/kg/min; (max 2 mcg/kg/min)				
Management of Hypertension: Target BP:/ Age-related Treatment Thresholds for Arterial Hypertension:				
 Newborns to 3 months greater than 90/60 3 months to 1 year greater than 110/70 1 year to 12 years greater than 130/80 12 years to 18 years greater than 140/90 a. If necessary start: 				
□ nitroprussidemcg/kg/min (0.5 to 5 mcg/kg/min) OR □ esmololmcg/dose (500 mcg/kg/dose) IV bolus over 1-2 min Followed bymcg/kg/min (50 to 300 mcg/kg/min) IV infusion				

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Diabetes Insipidus: (MD to confirm diagnosis)

Defined as urine output greater than 3 mL/kg/h associated with:

- increasing serum sodium greater than 145 mmol/L and/or
- increasing serum osmolarity greater than 300 mosM, and/or
- decreasing urine osmolarity less than or equal to 200 mosM

If Diabetes Insipidus present without hypotension, titrate vasopressin therapy to urine	
vasopressinmilliunit/kg/min (0.02-0.05 milliunit/kg/min; max 0.2 milliunit/kg	ı/mın) IV ıntusıon
Hormonal Therapy	
For organ donor management- Give levothyroxine for cardiac donors (discontinue if he	eart no longer under evaluation)
\square levothyroxine 100 mcg IV for 1 dose, then 50 mcg IV q12h (not weight based)	
INFECTION SURVEILLANCE AND TREATMENT	
Examine patient each shift for new skin lesions suggestive of viral, fungal or bacterial	infection
On daily rounds review for potential new infection.	
Treat any new suspected or confirmed viral, fungal or bacterial infection and	notify BC Transplant
 Influenza test (Flu A/B/RSV) all donors (during flu season only, typi COVID-19 test (requires dual source- NP swab and ET specimen to Transplant). Must be completed within 5 days of recovery surgery. Oral and genital swabs of any potential viral lesions, consult BC Transplant. 	est as indicated by BC
☑ Cultures - all cultures to be done at baseline and then q24h	
Sputum gram stain and culture	
Blood culture (Refer to current BCCH Pediatric Blood Culture Guide for a	appropriate collection quantities)
Urine culture	
Culture all drain sites	
☑ MRSA and VRE screens (also screen all drain sites for MRSA) as per hospital pol	icy
Antifungals and Antibiotics	
 Consult with pharmacy for renal dosing of all antibiotics in presence of impair If lungs <u>not</u> considered, treat any known or suspected infections as per ICU of If lungs are being considered treat with the following: 	
☐ fluconazole 6 mg/kg/dose (max 400 mg) IV q24h	
□ vancomycin (15 mg/kg)mg IV q6h	
(round to nearest 250mg) (consult pharmacy for renal dosing in presence of AKI)	
And one of the following:	
□ piperacillin-tazobactam 75 mg/kg/dose of piperacillin component (max 4 g/dose) l' *OR*	V q6h
meropenem 20 mg/kg/dose (max 2 g/dose) IV Q8H (If documented or suspected Extended Spectrum Beta-Lactamase (ESBL) organisms)	penicillin anaphylaxis or history of
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