

Date: \_\_\_\_\_ Time: \_\_\_\_\_

= Always applicable     = Check if applicable

**ADMISSION INSTRUCTIONS**

- Move to Comfort Care Note in chart.
- Contact initiated with BC Transplant
- Consent for Organ Donation obtained
- Code Status: Full therapy except cardiopulmonary resuscitation

**SECTION I. GUIDELINE FOR POTENTIAL DCD PATIENT UNTIL WITHDRAWAL OF LIFE SUPPORT**

**MONITORING:**

- Complete patient height, weight, and abdominal girth. Record on BCT Physical Assessment Form (available on [BC Transplant Website](#))

Height: \_\_\_\_\_ cm     Actual     Estimate

Weight: \_\_\_\_\_ kg     Actual     Estimate

Abdominal Girth: \_\_\_\_\_ cm (Measure around largest diameter)

- Urine output q1h (**notify MD if urine output greater than 200 mL/h**)
- HR, BP, Temperature q1h
- Arterial Pressure Monitor continuous
- Pulse Oximetry q1h
- CVP q4h (minimum)

**PATIENT CARE**

- Central venous catheter. RIJ preferred. Avoid femorals if possible
- 2 large bore peripheral IVs
- Urine catheter
- Maintain head of bed greater than 30 degrees
- Warming blanket to keep temperature at 35.5 to 37.5 °C
- NG/OG to low intermittent suction if feeds contraindicated or not tolerated
- X-ray post gastric sump insertion to confirm position
- Chest physiotherapy PRN
- Routine pulmonary toilet and repositioning

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**LABORATORY INVESTIGATIONS**

- Blood Type/Screen
- Goal hemoglobin greater than 70 g/L. Notify physician AND BC Transplant if less than 70 g/L
- Send blood for tissue typing and serology (use BC Transplant Collection Kit)

**Initial Bloodwork, then q6h AND PRN:**

- ABG
- Serum electrolytes, SCr, Urea, Ca, Mg, PO4, Lactate, CrCl or eGFR, CBC, glucose
- INR/PTT, AST, ALT, TBil, DBil, ALP, GGT, LDH, Total Protein
- Albumin, Amylase/Lipase, CK, Troponin (I or T)

- Cultures - all culture baseline then q24h
- Sputum gram stain and culture
- Blood culture x 2 via peripheral venipuncture
- Urine culture
- Culture all drain sites
- Urinalysis including specific gravity routine and micro baseline and Q24h
- Urine microalbumin/creatinine (ACR) ratio baseline and prn as requested
- Toxicology screen (serum/urine) as indicated
- MRSA and VRE screens (also screen all drain sites for MRSA) as per hospital policy

**DIAGNOSTICS**

- CXR, if not performed in previous 12 hours (and then q24h)
- CT of chest as requested by BC Transplant (High resolution – non-contrast)
- Bronchoscopy (as requested by BC Transplant)

**NUTRITION**

- Continue feeds if already initiated. Initiate unless contraindicated.
- If already initiated continue parenteral nutrition

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**INTRAVENOUS**

Total fluid intake at \_\_\_\_\_ mL/h (recommended 1 to 2 mL/kg/h) + previous hours urine output  
Maintenance IV fluids based on sodium level:

Sodium 145 mmol/L and above	<input type="checkbox"/> D5W
Sodium 130 to 145 mmol/L	<input type="checkbox"/> D5W-NaCl 0.45%
Sodium 130 mmol/L and below	<input type="checkbox"/> NS
<b>*OR*</b>	<input type="checkbox"/> _____

**RESPIRATORY**

**Objective:** to optimize lung recruitment for individual patient

Continue mechanical ventilation as per previous orders

**\*OR\***

Mechanical ventilation as follows:

- Mode \_\_\_\_\_
- Tidal volume 6mL/kg OR pressure limit at \_\_\_\_\_ (cm H2O) as applicable
- PEEP 10 and adjust to meet patient requirements

Adjust FiO2 to maintain SaO2 greater than or equal to 95% Maintain PaO2 greater than 70 mmHg with minimal effective FiO2.

Maintain pH 7.35-7.45

Recruitment manoeuvres: Periodic increases in PEEP from 30 to 40 cm H2O x 30 to 40 seconds q2h, and after all circuit disconnects and suctioning.

O2 challenge: 100% FiO2 with PEEP 10 (do not reduce PEEP if at a higher level) initial and q6h PRN as requested by BCT.

**MEDICATIONS**

**Hemodynamic Monitoring and Therapy:**

Goals of Therapy ( <i>Notify physician if outside of parameters</i> )	
• HR 60 to 120 beats/min	• CVP 6 to 10 mmHg
• MAP greater than 70 mmHg	• SBP 90 to 160 mmHg

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**Management of Hypotension:** If SBP less than 90 mmHg and/or MAP less than 70 mmHg, initiate the following:

- vasopressin 0 to 0.04 unit/min IV infusion (preferred vasopressor)
- NORepinephrine 0 to 15 mcg/min IV (call MD if higher dose required)

**Management of Hypertension:** If BP greater than or equal to 160/90 mmHg sustained for greater than 5 minutes, then wean vasopressors and inotropes. If necessary start:

- hydrALAZINE 5 to 10 mg IV q5min as needed for MAP greater than 110 and HR less than 80 bpm
- labetalol 2.5 to 10 mg IV q15min PRN (if HR greater than or equal to 80 bpm)

**Management of Bradycardia with Associated Hypotension:** If HR less than 60 bpm

- DOPamine IV infusion to a maximum of 10 mcg/kg/min

**Management of Tachycardia**

Manage as any critically ill patient. Ensure patient is euvolemic.

**Hormonal Therapy:**

- methylPREDNISolone (15mg/kg) \_\_\_\_\_ mg IV q24h  
(Maximum: 1 gram, rounded to the nearest 20 mg)

**\*AND\***

- vasopressin as indicated for hypotension management (see above)

**Antifungals and Antibiotics** (To be ordered **ONLY** if lungs are being considered **OR** as needed for culture/imaging results):

- fluconazole 400 mg IV q24h
- vancomycin (25 mg/kg) \_\_\_\_\_ mg IV load, then (15 mg/kg) \_\_\_\_\_ mg IV q12h  
(\*round doses to nearest 250 mg)

And one of the following:

- piperacillin-tazobactam 3.375 g IV q6h

**\*OR\***

- meropenem 500 mg IV q6h (for documented or suspected penicillin anaphylaxis or history of Extended Spectrum Beta-Lactamase (ESBL) organisms)

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**ELECTROLYTE MANAGEMENT**

- Serum creatinine is less than 150 micromol/L or normal renal function
- Urine output is greater than 0.5 mL/kg/h for 2 consecutive hours
- Do not replace potassium using both intravenous and enteral routes as provided below

Use local electrolyte orders – refer to internal hospital protocols

**\*OR\***

**Potassium Replacement: Chose from either IV or enteral route:**

IV potassium chloride must be given via **central line** when using pre-mixed bag of 20 mmol/50 mL

Serum Potassium	Dose/ Route
4 mmol/L and above	None
3.5 to 3.9 mmol/L	<input type="checkbox"/> potassium chloride 20 mmol IV over 30 min for 1 dose
3 to 3.4 mmol/L	<input type="checkbox"/> potassium chloride 20 mmol IV over 30 min q30min for 2 doses
Below 3 mmol/L	<input type="checkbox"/> potassium chloride 20 mmol IV over 30 min q30min for 3 doses

Check serum potassium 2 hours after end of final replacement dose

**\*OR\***

Enteral potassium chloride oral solution (20 mmol/15 mL) for enteral replacement

Serum Potassium	Dose/ Route
4 mmol/L and above	None
3.5 to 3.9 mmol/L	<input type="checkbox"/> potassium chloride 40 mmol NG/OG/PO BID for 2 doses
3 to 3.4 mmol/L	<input type="checkbox"/> potassium chloride 40 mmol NG/OG/PO TID for 3 doses
Below 3 mmol/L	Replace potassium via IV route

Check serum potassium next morning and no sooner than 4 hours after final replacement dose

**Phosphate Replacement**

Serum Phosphate	Dose/ Route
0.8 mmol/L and above	None
Below 0.8 mmol/L	<input type="checkbox"/> SODIUM phosphate 15 mmol IV over 2 hours q4h for 3 doses

If phosphate less than 0.4 mmol/L, check serum phosphate 4 hours after end of final replacement dose otherwise, check serum phosphate with blood work the next day

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**Magnesium Replacement**

Serum Magnesium	Dose/ Route
0.7 mmol/L and above	None
Below 0.7 mmol/L	<input type="checkbox"/> magnesium sulfate 5 gram IV over 4 hours q8h for 3 doses

If magnesium less than 0.4 mmol/L, check serum magnesium 4 hours after end of final replacement dose; otherwise, check serum magnesium with blood work the next day

**Calcium Replacement**

Serum Calcium	Dose/ Route
1.2 mmol/L and above	None
Below 1.2 mmol/L	<input type="checkbox"/> calcium gluconate 2 gram IV for 1 dose

Recheck ionized calcium level with next scheduled bloodwork

**GLYCEMIC CONTROL**

Use local glyceemic control orders – refer to internal hospital protocols

**\*OR\***

Initiate insulin regular IV infusion for sustained blood glucose greater than 10 mmol/L.

Start infusion to maintain blood glucose between 7 to 10 mmol/L

Blood Glucose (mmol/L)	Insulin regular IV infusion
Less than 10	0 unit
10 to 14	2 unit/h
14.1 to 18	4 unit/h
Greater than 18	6 unit/h

**\*OR\***

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**SECTION II. WITHDRAWAL OF LIFE SUPPORT**

**COMFORT CARE**

- Refer to ICU Comfort Care orders / ICU Palliation orders

**Anticoagulation**

Heparin 400 unit/kg \_\_\_\_\_ unit IV push (round to nearest 1000 unit) when SBP less than 60 mmHg at impending death

(RN to consult with ICU Attending/BCT for timing of administration of heparin)

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