

## Standard Process Description: Provincial ECLS Transport

### SITUATION

- Patient Profile
- Diagnosis
- Isolation

### MISSION

- Origin
- Destination
- Transport Mode

### EQUIPMENT

- ECLS
- Adjuncts
- Transport

### ADMINISTRATION

- Referral Team
- Transport Team
- Accepting Team

### COMMUNICATION

- Referral Team
- Transport Team
- PTN
- Accepting Team

Standard Process Description:  
 Provincial ECLS Transport

<b>Purpose: Provincial Inter-Facility ECLS Transport Workflow</b>			
<b>SITUATION: Confirmation of ECLS patient details for transfer</b>			
<b>STEP</b>	<b>REQUIRED PERSONNEL</b>	<b>TASK DESCRIPTION</b>	<b>REQUIRMENTS</b>
1.	MRP PCC	Confirm: <input type="checkbox"/> Age <input type="checkbox"/> Weight <input type="checkbox"/> Relevant comorbidities	Ensure informed consent obtained from TSDM for inter-facility transfer, involve SW early.
2.	MRP	Diagnosis:	
3.	MRP	Isolation requirements: <input type="checkbox"/> None <input type="checkbox"/> Contact <input type="checkbox"/> Droplet <input type="checkbox"/> Airborne	
4.	MRP Perfusion	Confirm: <input type="checkbox"/> Primary ECMO Transport <input type="checkbox"/> Secondary ECMO Transport	Ensure requisite equipment for Primary vs Secondary transport available, e.g. blood products, Echo, etc.

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<b>Purpose: Provincial Inter-Facility ECLS Transport Workflow</b>			
<b>MISSION: Articulation of inter-facility transport options and plan(s).</b>			
<b>STEP</b>	<b>REQUIRED PERSONNEL</b>	<b>TASK DESCRIPTION</b>	<b>REQUIRMENTS</b>
1.	MRP PCC Perfusionist	Referring centre: Accepting centre:	Teleconference between referring and accepting physicians, PCC, and perfusionists, respectively.
2.	Perfusionist CCP EPOS	Transport mode: <ul style="list-style-type: none"> <li>○ <u>General Considerations</u>: minimizing patient transfers between ambulances/aircraft is optimal, and should be considered when selecting mode(s) of transport.</li> <li>○ <u>Ground Ambulance</u>: confirm appropriate stretcher mount.</li> <li>○ <u>Air Ambulance</u>: for distances &gt; 150 km consider rotary-wring (helicopter) air ambulance.</li> <li>○ <u>Air Ambulance</u>: for distances &gt; 300 km (150 nautical miles) consider fixed-wing air ambulance.</li> <li>○ Other:</li> </ul>	Ensure total weight [patient + ECLS equipment] do not exceed stretcher capacity (see Appendix 1).

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<b>Purpose: Provincial Inter-Facility ECLS Transport Workflow</b>			
<b>EQUIPMENT: Confirmation of ECLS equipment, adjuncts, and transport equipment required.</b>			
<b>STEP</b>	<b>REQUIRED PERSONNEL</b>	<b>TASK DESCRIPTION</b>	<b>REQUIRMENTS</b>
1.	Perfusionist Paramedic	ECLS: specify type <input type="checkbox"/> e.g. ECMO, VAD, IABP, other: ECMO: specify <input type="checkbox"/> Mode: <input type="checkbox"/> Configuration: <input type="checkbox"/> Machine type: Adjuncts: specify additional equipment <input type="checkbox"/> Heater <input type="checkbox"/> ECLS adjunct: <input type="checkbox"/> Other:	Ensure total weight [patient + ECLS equipment] do not exceed stretcher capacity (see Appendix 1).  Confirm power draw and power sourcing compatible with transport mode(s) (see Appendix 1).
2.	Perfusionist Paramedic	Transport: specify transport equipment needs: <input type="checkbox"/> Stretcher <input type="checkbox"/> Tray(s) <input type="checkbox"/> Power source(s) <input type="checkbox"/> Heat source(s) <input type="checkbox"/> ECMO – transport equipment	As above
3.	RN Paramedic	Transport: specify transport equipment needs: <input type="checkbox"/> Pumps <input type="checkbox"/> Monitor/defibrillator <input type="checkbox"/> Blood products <input type="checkbox"/> Medication – maintenance <input type="checkbox"/> Medication – emergency/rescue <input type="checkbox"/> Other:	As above
4.	RT Paramedic	Transport: specify transport equipment needs: <input type="checkbox"/> Ventilator <input type="checkbox"/> Oxygen/Air supply <input type="checkbox"/> iNO <input type="checkbox"/> Other	As above

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<b>Purpose: Provincial Inter-Facility ECLS Transport Workflow</b>				
<b>ADMINISTRATION: Confirmation stakeholder notification</b>				
<b>STEP</b>	<b>REQUIRED PERSONNEL</b>	<b>TASK DESCRIPTION</b>	<b>REQUIRMENTS</b>	
1.	MRP	Family/TSDM <input type="checkbox"/> Informed consent obtained Patient <input type="checkbox"/> Code Status Transport Team <input type="checkbox"/> Confirm MD who will provide on-line medical support for ECLS teaming during transport	Involve SW to help family get to destination centre safely.	
2.	PCC	Transport Team <input type="checkbox"/> RN and RT assignment if needed for transport (if Critical Care Paramedic team not available) <input type="checkbox"/> Return plan for RN/RT/Perfusionist and medical equipment confirmed		
3.	Perfusionist	Transport Team <input type="checkbox"/> ECLS tube length adequate for transport <input type="checkbox"/> Confirm power sourcing (See Appendix 1) <input type="checkbox"/> Need for heater (or heat source) <input type="checkbox"/> Oxygen/Air supply <input type="checkbox"/> Emergency equipment (e.g. circuit breach, air embolism, cannulae migration, etc.) <input type="checkbox"/> Plan in place for circuit swap/change at destination centre	Guide all patient movements/transfers between beds and transport vehicle(s).  Confirm with accepting centre perfusionist the plan for transfer of circuit/equipment.	
4.	RN	Transport Team <input type="checkbox"/> Infusions - baseline <input type="checkbox"/> Infusions - emergency <input type="checkbox"/> Medications - PRN <input type="checkbox"/> Medications - emergency	Minimize infusions when possible to simplify during transport. Prepare IV infusion bags (not spiked) for transport team.	
5.	RT	Transport Team <input type="checkbox"/> Ventilator		

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		<input type="checkbox"/> Adjuncts e.g. iNO		
<b>6a.</b>	Paramedic <i>Primary Care</i>	Transport Team <input type="checkbox"/> Liaise with RN/RT/Perfusionist to facilitate patient transfer <input type="checkbox"/> Clinical Care and/or delegation of care (within scope of practice) is responsibility of transport RN/RT/Perfusionist	Roles and Responsibilities: RN/RT/Perfusionist guide clinical care during transport.	
<b>6b.</b>	Paramedic <i>Critical Care</i>	Transport Team <input type="checkbox"/> Liaise with RN/RT/Perfusionist to facilitate patient transfer <input type="checkbox"/> Liaise with MRP/RN/RT for clinical care hand over and discuss clinical goals/thresholds	Roles and Responsibilities: CCP and Perfusionist guide clinical care during transport.	
<b>7.</b>	Unit Clerk	<input type="checkbox"/> Chart copied <input type="checkbox"/> Relevant diagnostics/imaging pushed to grid <input type="checkbox"/> Consent(s)		
<b>8.</b>	PTN	<input type="checkbox"/> Relevant diagnostics/imaging pushed to grid <input type="checkbox"/> Transport vehicle(s) confirmed with BCEHS <input type="checkbox"/> Pick-up time confirmed <input type="checkbox"/> Repatriation of transport personnel and equipment confirmed (if applicable)		
<b>9.</b>	SW	<input type="checkbox"/> Family has plan to get to final destination safely		

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<b>Purpose: Provincial Inter-Facility ECLS Transport Workflow</b>			
<b>COMMUNICATION: Articulation of stakeholder notification</b>			
<b>STEP</b>	<b>REQUIRED PERSONNEL</b>	<b>TASK DESCRIPTION</b>	<b>REQUIRMENTS</b>
1.	MRP	Family/TSDM <input type="checkbox"/> Updated re: destination and transport time frame Transport Team <input type="checkbox"/> Confirm MD who will provide on-line medical support for ECLS teaming during transport Clinical Care <input type="checkbox"/> Sedation goals <input type="checkbox"/> Hemodynamic goals <input type="checkbox"/> ECMO parameters <input type="checkbox"/> Anticoagulation <input type="checkbox"/> Blood products and thresholds for transfusion <input type="checkbox"/> Resuscitation procedure(s) and roles	MRP to lead team huddle (CRM) prior to transport to discuss roles and clinical care during transport.  MD indentified who will provide on-line support during transport (if no MD on transport).
2.	PCC	Transport Team <input type="checkbox"/> RN and RT assignment if needed for transport (if Critical Care Paramedic team not available) <input type="checkbox"/> Return plan for RN/RT/Perfusionist confirmed	
3.	Perfusionist	Transport Team <input type="checkbox"/> Emergency Action Plan(s) (e.g. circuit breach, air embolism, cannulae migration, etc.) <input type="checkbox"/> Plan in place for circuit swap/change at destination centre	Guide all patient movements/transfers between beds and transport vehicle(s).  Confirm with accepting centre perfusionist the plan for transfer of circuit/equipment.
4.	RN	Transport Team <input type="checkbox"/> Sedation goal <input type="checkbox"/> Hemodynamic goal(s) <input type="checkbox"/> Clinical goals/thresholds (e.g. anticoagulation, Hgb, temperature, etc.)	
5.	RT	Transport Team <input type="checkbox"/> Ventilator Settings (baseline)	

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		<input type="checkbox"/> Ventilator Settings (emergency)	
<b>6a.</b>	Paramedic Primary Care	Transport Team <input type="checkbox"/> Liaise with RN/RT/Perfusionist to facilitate patient transfer <input type="checkbox"/> Clinical Care and/or delegation of care (within scope of practice) is responsibility of transport RN/RT/Perfusionist	Roles and Responsibilities: RN/RT/Perfusionist guide clinical care during transport.
<b>6b.</b>	Paramedic Critical Care	Transport Team <input type="checkbox"/> Liaise with RN/RT/Perfusionist to facilitate patient transfer <input type="checkbox"/> Liaise with MRP/RN/RT for clinical care hand over and discuss clinical goals/thresholds	Roles and Responsibilities: CCP and Perfusionist guide clinical care during transport.
<b>7.</b>	Unit Clerk	<input type="checkbox"/> Chart copied <input type="checkbox"/> Relevant diagnostics/imaging pushed to grid	
<b>8.</b>	PTN	<input type="checkbox"/> Pick-up time confirmed <input type="checkbox"/> Repatriation of transport personnel and equipment confirmed (if applicable)	
<b>9.</b>	SW	<input type="checkbox"/> Family up to date on transfer plan and time frame	