CLICK HERE for all SHA information on the Tiers of Service



CLICK HERE for further information on the Critical Care service line, including fillable checklists

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Facility/Team Name:	
Checklist completed by:	
Checklist completed on (date):	

### Critical Care - Tier 5 Checklist

	Available here?	Notes / Improvement Measures:
Clinical Services		
© Provide complex multi-system general critical care for an indefinite period of time		
S Access to some sub-specialties (may be virtual or remote access)		
Written care plan reviewed on multi-discliplinary rounds every 24 hours		
Written criteria for when escalation of care is required and consideration of transport to a higher tier is necessary		
• Review and documentation of patient's Goals of Care with each ICU admission and as needed when condition changes.		
Processes and equipment to meet patient and family spiritual needs (I.e. virtual communication devices, protocols for accommodating ceremonies, etc)		
⑤ IMV capacity in a minimumof 50%-75% of beds		
<b>⑤</b> Emergent or planned establishment of tracheostomy		
S Long term IMV weaning - stable ICU patient requiring protocols to wean from ventilator support and mutlidisciplinary team to manage care		
§ Bronchoscopy (includes bedside bronchoscopy)		
Tracheostomy care after first trach change		
Acute non-invasive ventilation		
Stable long-term invasive mechanical ventilation patient waiting for placement other than ICU		



	Available	
	here?	Notes / Improvement Measures:
Chest tube insertion, maintenance and removal		
Ultrasound guided thoracentesis		
High Flow Oxygen Therapy (AIRVO or OptiFlow)		
Prone positioning, chest physiotherapy, cough assist		
Massive Transfusion protocol with capacity to secure the necessary blood products and access to stat lab testing		
Sepsis management of unstable patients		
Management of infection disease requiring negative pressure room and the ability to ventilate within ventilator bed capacity		
Management of diseases requiring a private room for isolation		
Pulmonary artery catheter monitoring		
<b>⑤</b> Temporary transvenous pacing		
Code Blue for all patient populations (including pediatrics patients to stabilize and transfer) with ACLS level care (defib, cardioversion, transcutaneous pacing)		
Post cardiac arrest management, stabilize and transfer to Tier 5 or 6 as required		
Arterial and central line insertion and pressure monitoring		
Single or multiple vasoactive/inotropic infusions		
Unstable angina/arteriosclerotic heart disease with known disease, no new management options required		
Temporary transcutaneous pacing		
Continuous cardiac monitoring		
Intermittent pneumatic compression (calf compressors)		
Protocols and pharmaceuticals available for care of STEMI and Non-STEMI with tenecteplase, in consultation with Cardiology		
Cooling/warming, targeted temperature management		
Management of traumatic brain injury requiring increased monitoring due to potential for rapid deterioration		
Access to intermittent or continuous EEG bedside monitoring, follow up with Neurologist may be virtual/remote		
Non-invasive intra-cranial pressure monitoring (i.e. GCS, pupils)		
Management of increased ICP with medications in consult with Nerologist		



	Available here?	Notes / Improvement Measures:
Non-surgical management of stroke in consult with Neurologist (i.e. administration of tPA)		
4 Train of Four monitoring		
IV infusion of paralytic medications		
TPN- initiate and continue specialty compounding of solutions 7 days per week		
Intra-abdominal pressure monitoring (bladder)		
Esophageal tamponade tube insertion and management		
Management of DKA/hypoglycemia		
Management of diabetes insipidus requiring hourly intake/output monitoring and adjustment of IV fluids/medications		
Insulin infusion - ICU protocols		
Initate and manage tube feeding including standardized protocols for nutritional management		
Fecal management system		
NG/OG insertion in an unconscious patient		
<b>⊙</b> CRRT		
Hemodialysis		
Nursing to manage established peritoneal dialysis when patient/family are unable to with support from Nephrology and provincial kidney program as needed (support may be virtual)		
Care of burns requiring specialized wound care		
Pressure injury prevention and management, including access to specialty mattresses and pressure relieving devices		
Negative Pressure Wound Therapy with support from wound care nurse as required		
© Care of the donor until transport to Tier 6 as appropriate		
⑤ Organ donor transport to Tier 6 as appropriate		
Recognition of potential organ or tissue donor, consultation with Organ Donor Coordinators for further assessment		
Patient/family support in partnership with the Organ Donor Coordinator (support may be virtual/remote)		
© Care of obstetrical emergencies, stabilize and transfer to Tier 6 (i.e. hypertensive crisis, post-partum hemorrhage)		
In units where children may be admitted, provide emergency stabilization and support prior to transfer to JPCH PICU within 24 hours		



	Available here?	Notes / Improvement Measures:
	nere:	Notes / Improvement Measures.
Stabilization and transfer of critically ill or injured obstetrical patients in consult with obstetrician		
ICU physician support for code blue, medical emergencies or ICU consultations		
Massive Transfusion Protocol support		
Rapid Response/Outreach Team support (assessment and management of deteriorating patient on general ward)		
Code blue support		
◆ Trauma team support		
RT escort for mechanically ventilated patients requiring tests/treatments outside ICU, where required		
© Clinical workload of more than 200 IMV patients per year to maintain clinical expertise. Alternatively, 150 IMV and more than 50 NIV patients per year		
At least 30% of patient days with IMV		
At least 50% of patient days with arterial line monitoring		
At least 25% of patient days with single or multiple vasoactive/inotropic infusions		
⑤ Annual occupancy rate of 60% of more		
Clinical Requirements		
Intensivist Most Responsible Physician Model - all care in the unit directed by Intensivist. May be supported by other physician or learner models.		
<b>⑤</b> Clinical Resource Nurse/Clinical Nurse Educator with Critical Care expertise dedicated to the ICU		
⑤ Continuing Care Aid or Unit Support Worker - 12 hr/day		
⑤ Unit clerk 12-16 hours per day M-F		
<b>③</b> RT on site 24/7, participate in rounds daily		
⑤ PT primary assignment to the ICU available 5 days per week, participate in daily rounds as able		
⑤ Registered Dietitian participate in round M-F, 1 RD:20 ICU beds		
⑤ Social Work participate in rounds M-F, available 5 days per week		
Critical Care trained RN - ability to meet 1:1 nurse to patient ratio if care needs require it. Supernumary charge RN.  Minimum 2 RNs present in the unit at all time when a patient is admitted to unit. Local Clinical Nurse Educator/Clinical Resource Nurse and front line Critical Care team in Tier 4 ICUs will have access to Critical Care Outreach Coordinators for educational support		



	Available here?	Notes / Improvement Measures:
SLP & OT available 5 days per week, participate in rounds as able/needed		
<b>⑤</b> TPN- initiate and continue specialty compounding of solutions 7 days per week		
Pharmacy dept to provide some pre-mixed medications to the ICU prioritizing high risk medications		
Pharmacy technician time - 30 minutes per ICU bed		
Pharmacist dedicated to support ICU 7 days per week, on call after hours; 1 Pharmacist FTE:12 ICU beds		
Thrombolytic components for tPA or TNK and medications used for massive transfusion protocols (i.e. tranexamic acid)		
Automated medication system available to support medication safety (i.e. Pyxis)		
Markers of heart function or damage: NT-proBNP		
Blood product supply on site to support Massive Transfusion Protocol		
● Lab services available 24/7 for ICU support		
Metrics of renal function and dehydration: electrolyes, urea, creatinine		
Markers of heart function or damage: Troponin		
Blood gases		
Metrics of coagulation: D-dimers or equivalent		
Metrics of inflammation: lactate or procalcitonin		
Markers of blood cell status: Hb, WCC, etc		
Microbiology: processes in place to support cultures off site		
4 Access to ECG 24/7		
Portable ultrasound		
⑤ Interventional radiology - i.e. PICC line insertion, insertion of ports, nephrostomy, percutaneous gastrostomy		
• Access to PET services		
Basic digital subtraction angiography (DSA) suite for interventional services		
S EEG available 5 days per week		
Portable x-ray		
Ultrasound		



	Available	
	here?	Notes / Improvement Measures:
<b>④</b> CT services		
• Fluoroscopy		
Modified barium swallowing		
• Access to bronchoscope		
Temporary transvenous pacing device		
S EEG monitoring device		
Ventilators, intubation supplies, NIV/HFNC devices, suction (including portable for transport of patients outside of ICU)		
Cardiac bedside monitors with the ability to support continuous cardiac and hemodynamic monitoring (ART line and CVP), Respiratory measurements such as Sp02 and EtCO2)		
Temporary transcutaneous pacing device		
Intermittent pneumatic compression devices		
Train of Four monitor		
Cooling, warming devices		
<b>④</b> Tube feed pump		
Rapid infuser		
Pressure relieving devices (specialty mattresses, cushions, boots, etc). Mobility devices. Mechanical percussor/vibration, cough assist machine.		
Access to vac dressing pumps		
Intra-abdominal pressure monitor		
<b>6</b> CRRT, hemodialysis devices and supplies		
<b>9</b> Blood warmer		
Virtual communication devices for patient and family. Recliners or other comfortable sitting for visitors.		
Computer for each bed plus additional workstations for physicians, charge nurse and unit support staff. A computer on wheels.		
Desk for each bed (build in or mobile)		
◆ Two bedside tables per bed		
Supply cart for each patient room		
Requirements for Dialysis hook up for water and drainage supply		

	here?	Notes / Improvement Measures:
<b>④</b> Commode		
Negative pressure room(s) for isolation. Private rooms that allow for isolation precautions		
Video monitoring system for patient rooms and doorways		
Ceiling tracks and lifts including some with bariatric weight capacity		
Oxygen and medical gas outlets available for each side of the bed, and sufficient oxygen and medical gas capacity for facility overall given bed/IMV/NIV capacity		
Adequate suction capacity for each patient room - should be available on each side of the bed		
3 - 4 emergency back up power outlets for each bed or if at possible Uninterupted Power Supply outlets for emergency eqiupment such as ventilators		
Physical space in room that is adequate to perform care		
Hand washing capacity wihtin the room or very near by. Adequate ability to dispose of patient blood and body fluids - hoppers, toilets etc		
Lighting to suit both task and ambient. Blinds, curtains or electric glass for privacy.		
Legend:		
Services or requirements expected for teams/facilities providing Tier 5 services		
Services or requirements expected for teams/facilities providing Tier 4 or higher services		
• Services or requirements expected for teams/facilities providing Tier 5 or higher services		
Director review of completed checklist by:		
Date of review:		
Notes:		