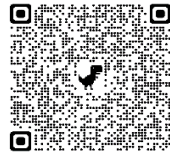


If you are a team delivering Tier 6 Critical Care services,
your site is expected to deliver all of the listed Clinical Services
and have all of the listed Clinical Requirements in place

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



Facility/Team Name:

Checklist completed by:

Checklist completed on (date):

Critical Care - Tier 6 Checklist

Clinical Services	Available here?	Notes / Improvement Measures:
6 Provide comprehensive critical care, including complex multi-system life support for an indefinite period of time		
6 Access to all sub-specialty care		
4 Written care plan reviewed on multi-disciplinary rounds every 24 hours		
4 Written criteria for when escalation of care is required and consideration of transport to a higher tier is necessary		
4 Review and documentation of patient's Goals of Care with each ICU admission and as needed when condition changes.		
4 Processes and equipment to meet patient and family spiritual needs (I.e. virtual communication devices, protocols for accommodating ceremonies, etc)		
6 IMV capacity in 100% of beds		
5 Emergent or planned establishment of tracheostomy		
5 Long term IMV weaning - stable ICU patient requiring protocols to wean from ventilator support and mutlidisciplinary team to manage care		
5 Bronchoscopy (includes bedside bronchoscopy)		
4 Tracheostomy care after first trach change		
4 Acute non-invasive ventilation		
4 Stable long-term invasive mechanical ventilation patient waiting for placement other than ICU		

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	Available here?	Notes / Improvement Measures:
4 Chest tube insertion, maintenance and removal		
4 Ultrasound guided thoracentesis		
4 High Flow Oxygen Therapy (AIRVO or OptiFlow)		
4 Prone positioning, chest physiotherapy, cough assist		
5 Massive Transfusion protocol with capacity to secure the necessary blood products and access to stat lab testing		
4 Sepsis management of unstable patients		
4 Management of infection disease requiring negative pressure room and the ability to ventilate within ventilator bed capacity		
4 Management of diseases requiring a private room for isolation		
6 Unstable angina/arteriosclerotic heart disease requiring Cardiology services		
6 Post cardiac surgery management		
6 Intra-aortic balloon pump		
6 ECMO		
5 Pulmonary artery catheter monitoring		
5 Temporary transvenous pacing		
4 Code Blue for all patient populations (including pediatrics patients to stabilize and transfer) with ACLS level care (defib, cardioversion, transcutaneous pacing)		
4 Post cardiac arrest management, stabilize and transfer to Tier 5 or 6 as required		
4 Arterial and central line insertion and pressure monitoring		
4 Single or multiple vasoactive/inotropic infusions		
4 Unstable angina/arteriosclerotic heart disease with known disease, no new management options required		
4 Temporary transcutaneous pacing		
4 Continuous cardiac monitoring		
4 Intermittent pneumatic compression (calf compressors)		
4 Protocols and pharmaceuticals available for care of STEMI and Non-STEMI with tenecteplase, in consultation with Cardiology		
4 Cooling/warming, targeted temperature management		

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	Available here?	Notes / Improvement Measures:
6 Invasive intra-cranial pressure monitoring		
6 Management of increased ICP - requiring Neurology intervention		
6 External ventricular drain management		
6 Surgical management of stroke		
6 Access to intermittent or continuous EEG bedside monitoring, Neurologist on site follow up		
5 Management of traumatic brain injury requiring increased monitoring due to potential for rapid deterioration		
4 Non-invasive intra-cranial pressure monitoring (i.e. GCS, pupils)		
4 Management of increased ICP with medications in consult with Neurologist		
4 Non-surgical management of stroke in consult with Neurologist (i.e. administration of tPA)		
4 Train of Four monitoring		
4 IV infusion of paralytic medications		
5 TPN- initiate and continue specialty compounding of solutions 7 days per week		
5 Intra-abdominal pressure monitoring (bladder)		
5 Esophageal tamponade tube insertion and management		
4 Management of DKA/hypoglycemia		
4 Management of diabetes insipidus requiring hourly intake/output monitoring and adjustment of IV fluids/medications		
4 Insulin infusion - ICU protocols		
4 Initiate and manage tube feeding including standardized protocols for nutritional management		
4 Fecal management system		
4 NG/OG insertion in an unconscious patient		
5 CRRT		
5 Hemodialysis		
4 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)		
5 Care of burns requiring specialized wound care		
4 Pressure injury prevention and management, including access to specialty mattresses and pressure relieving devices		
4 Negative Pressure Wound Therapy with support from wound care nurse as required		

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	Available here?	Notes / Improvement Measures:
6 Care of the donor until donation occurs		
4 Recognition of potential organ or tissue donor, consultation with Organ Donor Coordinators for further assessment		
4 Patient/family support in partnership with the Organ Donor Coordinator (support may be virtual/remote)		
6 Provide care for critically ill obstetric patients with on-site obstetric service		
4 In units where children may be admitted, provide emergency stabilization and support prior to transfer to JPCH PICU within 24 hours		
4 Stabilization and transfer of critically ill or injured obstetrical patients in consult with obstetrician		
5 ICU physician support for code blue, medical emergencies or ICU consultations		
5 Massive Transfusion Protocol support		
4 Rapid Response/Outreach Team support (assessment and management of deteriorating patient on general ward)		
4 Code blue support		
4 Trauma team support		
4 RT escort for mechanically ventilated patients requiring tests/treatments outside ICU, where required		
6 Sufficient clinical workload of IMV patients to maintain expertise consistent with comprehensive critical care service provision (300 IMV patients/yr)		
6 Annual occupancy rate of 75% or more		
5 At least 30% of patient days with IMV		
5 At least 50% of patient days with arterial line monitoring		
5 At least 25% of patient days with single or multiple vasoactive/inotropic infusions		
Clinical Requirements		
6 Continuing Care Aid or Unit Support Worker - 24 hr/day		
6 Unit Clerk 16 hrs per day, 7 days per week		
6 PT primary assignment to the ICU, available 7 days per week, participate in rounds as able		
6 Registered Dietitian available 5 days per week, on call on weekends; 1 RD:20 ICU beds		
6 Social Work participate in rounds M-F, available 7 days per week		
5 Intensivist Most Responsible Physician Model - all care in the unit directed by Intensivist. May be supported by other physician or learner models.		
5 Clinical Resource Nurse/Clinical Nurse Educator with Critical Care expertise dedicated to the ICU		

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	Available here?	Notes / Improvement Measures:
6 RT on site 24/7, participate in rounds daily		
Critical Care trained RN - ability to meet 1:1 nurse to patient ratio if care needs require it. Supernumary charge RN.		
4 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		
4 SLP & OT available 5 days per week, participate in rounds as able/needed		
6 Clinical Pharmacist with Advanced Degree available M-F		
5 TPN- initiate and continue specialty compounding of solutions 7 days per week		
4 Pharmacy dept to provide some pre-mixed medications to the ICU prioritizing high risk medications		
4 Pharmacy technician time - 30 minutes per ICU bed		
4 Pharmacist dedicated to support ICU 7 days per week, on call after hours; 1 Pharmacist FTE:12 ICU beds		
4 Thrombolytic components for tPA or TNK and medications used for massive transfusion protocols (i.e. tranexamic acid)		
4 Automated medication system available to support medication safety (i.e. Pyxis)		
6 Provide comprehensive range of core laboratory services		
5 Markers of heart function or damage: NT-proBNP		
5 Blood product supply on site to support Massive Transfusion Protocol		
4 Lab services available 24/7 for ICU support		
4 Metrics of renal function and dehydration: electrolytes, urea, creatinine		
4 Markers of heart function or damage: Troponin		
4 Blood gases		
4 Metrics of coagulation: D-dimers or equivalent		
4 Metrics of inflammation: lactate or procalcitonin		
4 Markers of blood cell status: Hb, WCC, etc		
4 Microbiology: processes in place to support cultures off site		
4 Access to ECG 24/7		
6 MRI services		
6 Interventional radiology - i.e trauma, neuroradiology, vascular (stents, angioplasty, etc)		
6 Access to urgent echocardiography 7 days per week		
5 Portable ultrasound		
5 Access to PET services		

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	Available here?	Notes / Improvement Measures:
5 Basic digital subtraction angiography (DSA) suite for interventional services		
5 EEG available 5 days per week		
4 Portable x-ray		
4 Ultrasound		
4 CT services		
4 Fluoroscopy		
4 Modified barium swallowing		
6 ICP monitoring device		
5 Access to bronchoscope		
6 Pulmonary artery pressure monitor		
5 Temporary transvenous pacing device		
5 EEG monitoring device		
4 Ventilators, intubation supplies, NIV/HFNC devices, suction (including portable for transport of patients outside of ICU)		
4 Cardiac bedside monitors with the ability to support continuous cardiac and hemodynamic monitoring (ART line and CVP), Respiratory measurements such as SpO2 and EtCO2)		
4 Temporary transcutaneous pacing device		
4 Intermittent pneumatic compression devices		
4 Train of Four monitor		
4 Cooling, warming devices		
4 Tube feed pump		
4 Rapid infuser		
4 Pressure relieving devices (specialty mattresses, cushions, boots, etc). Mobility devices. Mechanical percussor/vibration, cough assist machine.		
4 Access to vac dressing pumps		
6 Intra-aorta balloon pump		
6 ECMO equipment and supplies		
5 Intra-abdominal pressure monitor		
5 CRRT, hemodialysis devices and supplies		
5 Blood warmer		
4 Virtual communication devices for patient and family. Recliners or other comfortable sitting for visitors.		

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	Available here?	Notes / Improvement Measures:
④ Computer for each bed plus additional workstations for physicians, charge nurse and unit support staff. A computer on wheels.		
④ Desk for each bed (build in or mobile)		
④ Two bedside tables per bed		
④ Supply cart for each patient room		
⑤ Requirements for Dialysis hook up for water and drainage supply		
④ Commode		
④ Negative pressure room(s) for isolation. Private rooms that allow for isolation precautions		
④ Video monitoring system for patient rooms and doorways		
④ Ceiling tracks and lifts including some with bariatric weight capacity		
④ 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		
④ Adequate suction capacity for each patient room - should be available on each side of the bed		
④ 3 - 4 emergency back up power outlets for each bed or if at possible Uninterrupted Power Supply outlets for emergency equipment such as ventilators		
④ Physical space in room that is adequate to perform care		
④ Hand washing capacity within the room or very near by. Adequate ability to dispose of patient blood and body fluids - hoppers, toilets etc		
④ Lighting to suit both task and ambient. Blinds, curtains or electric glass for privacy.		

Legend:

- ④ Services or requirements expected for teams/facilities providing Tier 4 or higher services
- ⑤ Services or requirements expected for teams/facilities providing Tier 5 or higher services
- ⑥ Services or requirements expected for teams/facilities providing Tier 6 services

Director review of completed checklist by:

Date of review:

Notes:

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