

	Medical-Surgical Units	mbined with the patient's condition, and availab Intermediate (CCU & SCU)	Critical Care (ICU)
	<ul> <li>Monitoring nd/or treatments by nursing Q4H-Q8H</li> <li>More frequent monitoring is possible for limited periods of time while actively being treated (depending on staffing resources) ex: Q 1 hr X 2</li> </ul>	<ul> <li>→ Monitoring and/or treatments by nursing Q2H-Q4H         <ul> <li>-Exceptions include POCT/Blood sugar monitoring for             insulin titration</li> <li>→ 1:3 RN to patient ratio</li> <li>→ Nursing Assessments: Full Assessment every shift with focused             re-assessments Q4H</li> </ul> </li> </ul>	<ul> <li>→ Management using invasive and non-invasive life sustaining equipment/technology.</li> <li>→ Medications that demand frequent, astute assessments and titration/management by nursing.</li> <li>→ Frequent (Q2 hours or less) vital/neuro sign monitoring and/or treatments by nursing</li> <li>→ 1:1 or 2:1 RN to patient ratio to facilitate close monitoring dependint on patient condition</li> </ul>
	Medical-Surgical Units	Intermediate (CCU & SCU)	Critical Care (ICU)
	<ul> <li>→ Oxygen requirement of &lt;60 % and flow 8L/min not requiring continuous O2 saturation monitoring</li> <li>→</li> <li>→ Patient at baseline respiratory status or on home oxygen dose and device</li> </ul>	<ul> <li>→ Patients with Acute Hypoxic Respiratory Failure with High flow O2 supplementation with plan to wean</li> <li>→ Patients on high flow O2 or BiPAP who are DNR/DNI</li> <li>→ Stable high flow with FiO2 to keep O2 saturation ≥93% (88% for COPD) and/ or at baseline WOB</li> </ul>	<ul> <li>→ Patients with Acute Hypoxic Respiratory Failure: receiving high flow O2 support         <ul> <li>-FiO2 &gt;60% and/OR High flow for continuous increased WOB</li> <li>-100% non-rebreather mask continuous</li> <li>-→ Respiratory decline requiring intubation</li> </ul> </li> </ul>
	→Patients with Chronic hyper carbic respiratory failure requiring BiPAP/CPAP at hour of sleep.	→ NEW BiPAP in patients whose goals of care do not include intubation (DNR/DNI) ->Patients with Acute onset of CHF/Pulmonary edema on BiPAP expected to wean within 2 hours after receiving IV diuretics (CCU preferred)	→Patients requiring NEW and/or Continuous BiPAP/CPAP for ventilatory support to recover from Acute Hypoxic Respiratory Failure, acute hypoxic (e.g., CHF) or hypercarbia respiratory failure (e.g., COPD).
		<ul> <li>Chronic tracheostomy patients</li> <li>→ Tracheostomies old who require BIPAP</li> <li>→ Stable post op who has an existing tracheostomy (VSS and can use call system for assistance or can manage their secretions)</li> <li>→ Chronic tracheostomy patients who use ventilator mode at HS at baseline or as needed for management of irreversible condition</li> </ul>	<ul> <li>→ Need for invasive mechanical ventilation.</li> <li>→ New post operative tracheostomy patients</li> <li>→ All post op Laryngectomy patients</li> </ul>
	<ul> <li>→ Stable patients with chronic tracheostomy requiring respiratory treatments, pulmonary toilet, tracheostomy care Every 4-8 hrs</li> <li>→ 3E accepts patients with recently created tracheostomy</li> </ul>	→Patients with a tracheostomy or laryngectomy requiring respiratory treatments, pulmonary toilet/suctioning, tracheostomy care 2-4 hours (suctioning may also include PRN needs)	→ Need for respiratory therapy treatments, pulmonary toilet, tracheostomy care frequently/ more often than Q1H or for complex condition
	→Normal work of breathing and reduced angioedema	<ul> <li>→ Airway monitoring for airway edema (mild-moderate angioedema) requiring suctioning or other airway care every</li> <li>2 -4 hours according to clinical picture</li> </ul>	→ Concern for acute airway compromise (i.e., patients with severe angioedema or epistaxis) Or who require suctioning more frequently than every 2 hours
	<ul> <li>→ Stable Pulmonary Embolus with no evidence of right heart strain</li> <li>→ Heparin infusions are appropriate</li> </ul>	Pulmonary embolus with no evidence of right heart strain with HR 100-129, hypoxia and/or significant medical comorbid conditions (CHF, COPD, others) → PE with right heart strain in patients whose goals of care do not include thrombectomy or thrombolysis OR after initial 24 hours of ICU LOC	<ul> <li>→ Pulmonary Embolus with right heart Strain (as indicated by any of: elevated BNP, troponin or tachycardia (HR&gt;130)) will be managed in ICU for at least 24 hours</li> <li>→ All patients with thromboembolic disease (DVT or PE) who receive thrombolytic agents, first 24 hours.</li> <li>Ex: Alteplase/TPA</li> </ul>

Replaces archived Critical Care A-0.1 SCU Guidelines, A-1.17 CCU Intermediate LOC Admission and Discharge Criteria. Approved by ED & Reps from Inpt Nursing/Physician Leadership & Pharmacy 4/2020; Revised 7/21/2023. NB; Page 1 of 4



## **Level of Care Guidelines**

	Level of care identified for patient placement is a collaborative medical and nursing decision based on clinical judgement of the identified criteria combined with the patient's condition, and available resources		
	Medical-Surgical Units	Intermediate (CCU & SCU)	Critical Care (ICU)
SIRS, Severe Sepsis & Septic Shock	<ul> <li>→ Hemodynamic stability (with 10 % of baseline HR, BP, RR/WOB, oxygen saturation and mentation)</li> <li>→ ≤2 of the SIRS Criteria</li> <li>→ <u>SIRS criteria</u>: WBC count &gt; 12,000 or &lt; 4,000 10% bands HR &gt;90 RR &gt;20 T&gt;100.4F or &lt;96.8F</li> </ul>	<ul> <li>→ Severe sepsis and/or multiple comorbid conditions with hemodynamic stability with a down-trending lactate more than 25% or lactate &lt;4</li> <li>→ SBP greater than or equal to ≥90 after adequate fluid resuscitation</li> <li>→ SIRS criteria: WBC count &gt; 12,000 or &lt; 4,000 10% bands HR &gt;90 RR &gt;20 T&gt;100.4F or &lt;96.8F</li> </ul>	Severe Sepsis/ Septic Shock: → SBP <90 mm Hg and/or serum lactate ≥ 4.0 related to shock state, despite adequate initial resuscitation and/or requiring chemical support → SIRS criteria: WBC count > 12,000 or < 4,000 10% bands HR >90 RR >20 T>100.4F or <96.8F
Endocrine	<ul> <li>→ Resolved DKA no longer requiring continuous insulin infusion.</li> <li>→ Glucose checks Every 4-8 hrs</li> </ul>	<ul> <li>DKA (Diabetic Ketoacidosis) requiring continuous insulin infusion with pH ≥ 7.1 expected to improve within 8-12 hours</li> <li>Severe hyperglycemia requiring continuous insulin infusion,</li> <li>*Q1H Blood glucose monitoring acceptable*</li> <li>&gt;Insulin drip for hypertriglyceridemia</li> </ul>	→DKA or hyperglycemia requiring continuous infusion of insulin and pH <7.1 or concomitant renal failure, sepsis, myocardial infarction, severe electrolyte abnormalities or other process
Electrolyte and pH abnormalities	<ul> <li>→ Electrolyte checks Every 4-8 hrs</li> <li>→ Sodium &gt;120</li> <li>-Hyponatremia with mild symptoms (anorexia n/v, fatigue, headache)</li> </ul>	<ul> <li>→ Patients requiring frequent monitoring (electrolyte checks or ECGs Q 1 hr for &gt; 8 hrs) of non-life-threatening electrolyte abnormalities</li> <li>→ Sodium: 115-120,</li> <li>→ Sodium: 145-170, (related to hyperglycemia/HHS, or DI)</li> </ul>	<ul> <li>→ Metabolic Acidosis with pH &lt;7.1</li> <li>→ Serum sodium: &lt; 115 or &gt; 170</li> <li>→ Serum potassium: &lt; 2.0 or &gt; 6.0 with EKG changes or abnormalities or → Potassium &gt; 8</li> <li>→ Serum Calcium: Abnormality with ECG changes</li> </ul>
Temperature Management	<ul> <li>→ Normothermia</li> <li>Deviations not accompanied by VS or neurological changes and is a single system failure (no clinical instability)</li> <li>→ Mild hypothermia and hyperthermia with stable VS and responsive to nursing and pharmacological interventions</li> <li>-Use of Bair Huggar (air flow) not acceptable</li> <li>-Blanketrol (water) with rectal probe for continuous temperature reading is acceptable*</li> <li>*Provider orders REQUIRED for temperature goal and temperature/VS schedule</li> </ul>	<ul> <li>Mild-Moderate hypothermia ranging 92-95F</li> <li>Hyperthermia in the absence of hemodynamic instability or CNS complications such neuroleptic malignant syndrome</li> <li>-Use of nursing interventions, pharmacological and external warming/cooling using Blanketrol*</li> <li>-*Bair Hugger NOT accepted on intermediate units</li> <li>*Provider orders REQUIRED for temperature goal and temperature/VS schedule</li> </ul>	<ul> <li>→ Hypothermia – temperature &lt;33.3C (92° F) or suspected Sepsis with multi system compromise</li> <li>→ Use of fluid warmer for hypothermia</li> <li>→ Use of Blanketrol or Bair Hugger for temperature control</li> <li>→ Use Gaymar for TTM</li> <li>→ Use of nursing interventions (and antipyretics) for hypo/hyperthermia</li> <li>*Provider orders temperature goal and temperature/VS schedule</li> </ul>

Replaces archived Critical Care A-0.1 SCU Guidelines, A-1.17 CCU Intermediate LOC Admission and Discharge Criteria. Approved by ED & Rep from Inpt Nursing/Physician Leadership & Pharmacy 4/2020; Revised 7/21/2023. NB; Page 2 of 4



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	Medical-Surgical Units	Intermediate (CCU & SCU)	Critical Care (ICU)
Cardiac/ Hemodynamic Instability	<ul> <li>→ Hemodynamic stability (baseline HR, BP, RR/WOB, mentation and no complaints such as CP, dizziness, SOB/breathing difficulty)</li> <li>→ SBP &gt;90 with improving clinical status or within 10% of patients baseline.</li> <li>→ Blood pressure monitoring, VS, neurological monitoring ≥Q4H</li> <li>→ Stable Diltiazem infusions with changes that only require close monitoring for a limited period of time are acceptable.</li> <li>→ Albumin administration appropriate</li> </ul>	<ul> <li>→ Hypertensive Urgency without evidence of end-organ damage (intracranial hemorrhage, renal failure, myocardial infarct)</li> <li>→ Active titration of medications within intermediate limits (see below) for BP and/or HR in accordance with the titration guidelines pending effectiveness. NO additional administration/concomitant infusions to be added for poor hemodynamic response; consider transfer to higher LOC</li> <li>→ A-Lines and CVP monitoring accepted on intermediate units</li> <li>→ Consider CCU Placement: Tachy and Brady arrhythmias, BNP/Trop right sided heart failure</li> <li>Continuous Drips Appropriate for Intermediate Units: Note: hospitalist service will manage only diltiazem and amiodarone infusions</li> <li>Diltiazem</li> <li>NitroGLYCERIN</li> <li>Labetalol</li> <li>Lidocaine</li> <li>Procainamide</li> <li>Phenylephrine Amiodarone</li> <li>DOBUTamine: 10mcg/kg/min (Max rate *Not titratable*)</li> <li>DOPamine: ≤10mcg/kg/min continuous</li> <li>Esmolol</li> <li>Isuprel</li> <li>Eptifibatide</li> <li>Cangrelor</li> <li>Milrinone</li> <li>*Hospitalists only manage Diltiazem and Amiodarone infusions</li> </ul>	<ul> <li>Continuous hemodynamic monitoring by invasive means</li> <li>Need for frequent titration of multiple vasoactive drugs</li> <li>Cardiopulmonary arrest with intubation with or without</li> <li>Hypothermia (HACA)</li> <li>Patient management with intra-aortic balloon pump or Impella</li> <li>Ventricular Assist</li> <li>Peripheral vascular disease requiring EKO Sonic® with thrombolytic therapy.</li> <li>Hypertensive emergency requiring continuous infusion or titration of antihypertensive agent or with evidence of end-organ damage.</li> <li>Drug desensitization (i.e., aspirin, antibiotics), during initial medication therapy</li> <li>Hypotension – systolic blood pressure &lt;90 mm Hg, unresponsive to immediate fluid resuscitation of 30 cc/kg</li> <li>Tachycardia – sustained heart rate &gt; 150 bpm despite intervention</li> <li>Bradycardia – sustained heart rate &lt; 30 bpm despite intervention</li> <li>Hypothermia – temperature ≥107° F</li> <li>Hypothermia:&lt;92° F or presence of clinical instability</li> </ul>
Acute Alcohol Withdrawal	<ul> <li>→ &lt;10mg Ativan in 8 hour period</li> <li>→ CIWA Protocol effective for withdrawal symptoms</li> </ul>	→Ativan >10 mg Ativan in 8-hour period and still actively scoring. → Phenobarbital dose 5-10 mg/kg, not to exceed 60 mg/min or 1,000mg/24 hrs (per the Intermediate unit Severe ETOH Wtithdrawal Guidance)	<ul> <li>Increased dosing and treatment requirements despite CIWA protocol</li> <li>Severely agitated condition requiring mechanical restraint.</li> <li>Withdrawal seizure and Severe withdrawal symptoms: HR &gt;115, SBP &gt; 170, RR &gt; 25, Temp &gt; 101</li> <li>Severe alcohol withdrawal requiring MICU AWS protocol or additional administration(s) of Phenobarbital, propofol, or continuous infusion of benzodiazepine agent.</li> </ul>



## Level of Care Guidelines

	→Stable H/H with Hemoglobin checks ≥6hrs	→Acute ongoing active blood loss (Hematemesis, melena, bright	→ Evidence of GI bleeding with Hemodynamic instability: SBP < 90 mm
		red rectal blood or ongoing anemia) of mild to <b>moderate</b> volume	Hg; HR > 120 despite appropriate fluid resuscitation.
			→Acute ongoing active blood loss (hematemesis, melena, bright rectal
å			blood) of moderate to severe volume requiring rapid infusion.
ediı			→GI bleed with strong clinical suspicion for esophageal variceal bleeding
Ble			→ Elevated BNP AND troponin AND signs of right heart failure on CT PE,
5			EKG or echocardiogram

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	Medical-Surgical Units	Intermediate (CCU & SCU)	Critical Care (ICU)
Toxic Ingestions/Overdose	<ul> <li>→Awake</li> <li>→Hemodynamic stability (Stable=pt's BP, HR/ECG, RR, effort and oxygen saturation wnl or at baseline; may be lethargic, but otherwise neurologically intact)</li> <li>→Acetaminophen OD requiring Mucomyst (Acetadote) is appropriate.</li> <li>→EKG Q2 hr for limited time ≤6 hrs</li> </ul>		<ul> <li>Drug overdose cases that lead to neuro or hemodynamic changes requiring more frequent than Q 2hr monitoring, management or expected decompensation.</li> <li>Concentrated insulin infusion for BB/CCB OD (HIET)</li> <li>Drug overdose requiring medication or other critical care treatment with reversals.</li> <li>Narcan infusions</li> <li>EKG Q30 min</li> </ul>