

Appendix V: Pediatric Delirium Causes & Interventions- Typical or Atypical

Delirium Defined	Looks like
Disturbance of consciousness and cognition that develops acutely with fluctuating course of mental status, inattention, and impaired ability to receive, process, store or recall information directly triggered by general medical condition, substance intoxication, and/or trauma	Psychosis
	Encephalopathy
	ICU syndrome
	Acute Brain Failure
	Acute state of confusion
	"Sun-downing"

Causes

Downers- Primary cause in critically ill	Alcohol, barbiturates, benzodiazepines
Acute metabolic	Electrolyte imbalance, hepatic or renal failure
Trauma	Head injury, post-operative
CNS pathology	Stroke hemorrhage, tumor, seizures
Hypoxia	Anemia, cardiac failure, pulmonary embolus
Nutrient Deficiencies	Vitamin B12, Thiamine, folic acid
Endocrinopathies	Thyroid, glucose, parathyroid or adrenal dysfunction
Acute Vascular	Shock, vasculitis, hypertensive encephalopathy
Toxins/drug	Toxins, anesthetics, anticholinergics, opioids
Heavy metals	Arsenic, lead, mercury

Recognition tools: Cornell Assessment for Pediatric Delirium (CAPD)

*adapted from *Pediatric Anesthesia Emergence Delirium Age 0-21*

Treatment: ultimate goal to NORMALIZE ROUTINE

Tier I	Tier II	Tier III
Non Pharmacologic Mgt	Pharmacologic adjuncts	Atypical Antipsychotics <i>*Must obtain Psych consult</i>
Reassurance & reorientation <ul style="list-style-type: none"> Family participation Calendars, clocks Pictures- people/objects Familiar toys, music, blankets 	First Line <ul style="list-style-type: none"> Avoid and/or Remove benzodiazepines Caution w Opioids & Antihistamines <i>*If Opioid needed, transition to longer acting</i>	Seroquel (Quetiapine) <ul style="list-style-type: none"> Safe in younger children >5yo Uses – Hyperactive delirium, agitation Dosage: 12.5 - 100mg, max 300mg/day ICU psychosis - Expected course 4-14 days
Ensure good sleep opportunity <ul style="list-style-type: none"> Cluster care Maintain day/night <ul style="list-style-type: none"> Lighting, noise reduction 	Medication for Sleep: <ul style="list-style-type: none"> Clonidine 5-10 mcg/kg/d <ul style="list-style-type: none"> Bigger dose at night, may divide TID (if needed daytime) Melatonin 3-10 mg at night Dexmedetomidine <ul style="list-style-type: none"> 0.2- 1mcg/kg/hr. If possible lower dose for ventilated pts during day <i>* in younger pts may have ↑bradycardia and hypotension</i>	Olanzapine <ul style="list-style-type: none"> Recommended ages >12yo Uses – Mood lability, aggressive/crying 2.5 -10 mg - ideally BID <ul style="list-style-type: none"> Tablet (rapidly dissolving), or IM
Early mobilization <ul style="list-style-type: none"> Avoid restraints 		Risperidone <ul style="list-style-type: none"> Uses- Hyperactive Psychosis Less extrapyramidal effects Do not use w chronic liver dx Orally disintegrating tablet or liquid
Psychiatry consult needed if: <ul style="list-style-type: none"> Pain is alleviated Sleep addressed Environment optimized 		