

Trauma Delirium Management Guideline

Monitoring and Treatment

- I. The confusion assessment method for the ICU (CAM-ICU) should be monitored each shift and reported to the team during rounds
 - a. CAM-ICU should NOT be reported as unable to assess unless RASS <-3
 - b. Consider RASS and CAM-ICU status when choosing treatment options
 - i. Hypoactive delirium – CAM positive and RASS 0 to -3
 - Non-pharmacological management
 - Minimize sedating medications
 - ii. Hyperactive or mixed hyper/hypoactive delirium – CAM positive and RASS -3 to +4
 - See algorithm
 - b. Goal RASS should be specified on **ALL** patients
- II. If CAM positive, consider differential diagnosis (hypoxia, sepsis, CHF, over-sedation, deliriogenic medications)

Non-pharmacologic management**

- **Orient patient** (provide visual/hearing aids, re-orient, encourage communication, encourage proper sleep hygiene, and provide cognitively stimulating activities during the day)
- **Environment** (Mobilize patients early and often, provide familiar objects in patient's room, minimize noise at night, and remove unnecessary lines/drains)
- **Adjunctive** (perform SATs daily, provide adequate pain management, correct dehydration and electrolyte disturbances)

Deliriogenic Medications**

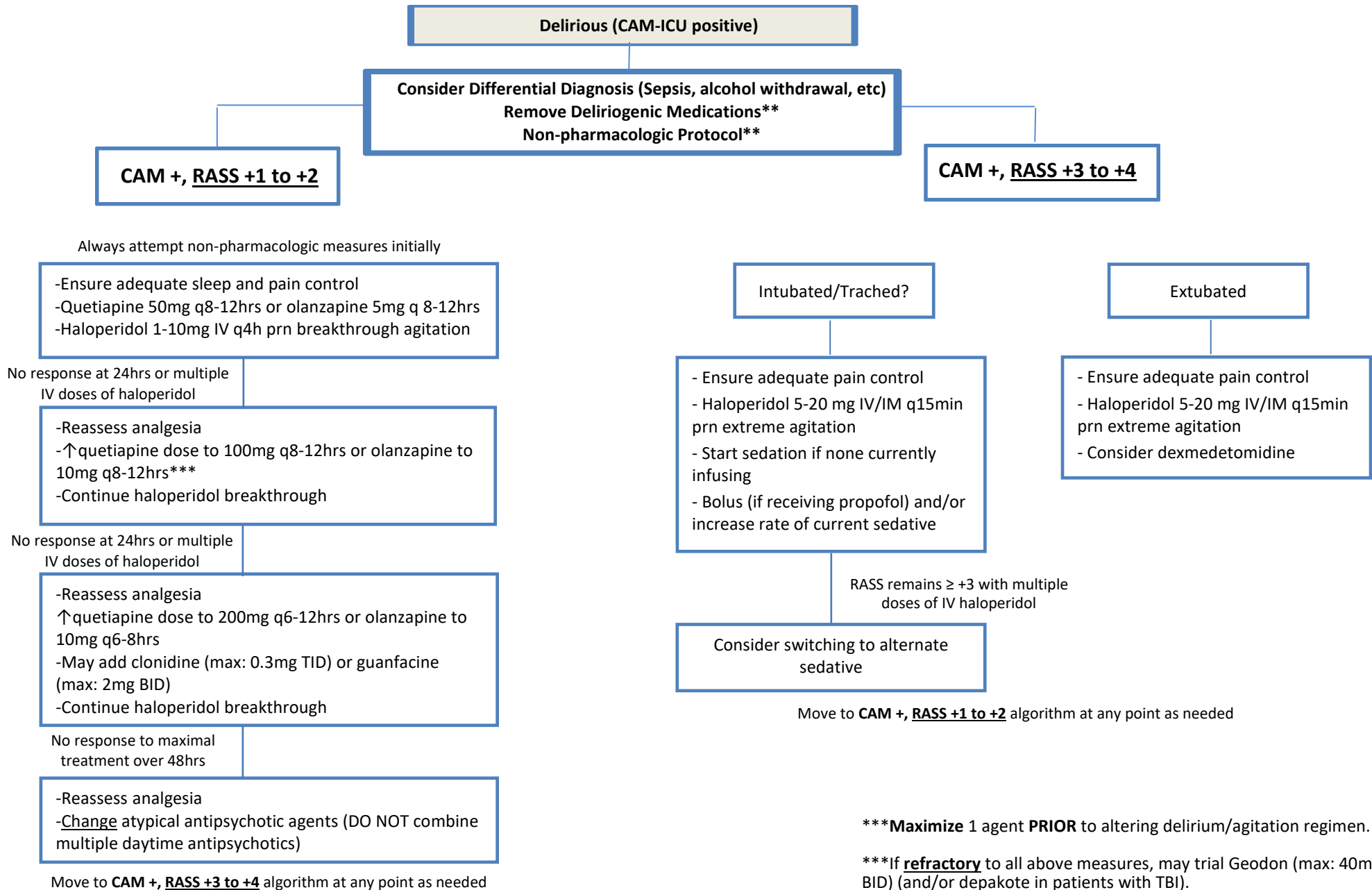
- Benzodiazepines
- Anticholinergics (diphenhydramine, glycopyrrolate, metoclopramide, H2 blockers, TCAs, cyclobenzaprine)
- Steroids
- Pain medications (if pain is not cause of agitation/delirium)
 - Decrease opioid dose
 - Utilize multimodal pain regimen

Special Considerations

- Traumatic Brain Injury
 - Avoid large doses of haloperidol in traumatic brain injury patients.
 - Consider early use of propranolol 10-20mg q8-6h (max 360 mg/day) for agitation related to neurologic storming.
 - Consider starting depakote/valproic acid 500 mg q8h (titrate up as needed) for agitation related to TBI
 - Obtain baseline LFTs (use with caution in patients with liver disease) and weekly LFTs while on therapy
 - Only obtain valproate level if concerned for toxicity
 - Max dose is 60 mg/kg/day
- Geriatric population
 - Reduced antipsychotic (50%) doses should be initially used in patients > 65 years old
 - Avoid haloperidol doses >5mg or quetiapine doses >100mg in patients > 65 years old

Hyperactive Delirium

(includes mixed delirium with hyperactive component, ex: attempting to wean sedation)



***Maximize 1 agent **PRIOR** to altering delirium/agitation regimen.
 ***If **refractory** to all above measures, may trial Geodon (max: 40mg BID) (and/or depakote in patients with TBI). If unsuccessful, consult psychiatry for additional recommendations.
 ***Consider QTc monitoring if receiving multiple QT-prolonging medications. Modify QT-prolonging medications if QTcF > 500.

References:

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2. Girard T, Exline M, Carson S, et al. Haloperidol and Ziprasidone for Treatment of Delirium in Critical Illness. *N Engl J Med*. 2018;379(26):2506-2516.
3. Hughes CG, Mailloux PT, Devlin JW, et al. Dexmedetomidine or propofol for sedation in mechanically ventilated adults with sepsis. *NEJM*. 2021; 384:1424-1436.
4. Marra A, Wesley E, Pandharipande P, et al. The ABCDEF Bundle in Critical Care. *Crit Care Clin*. 2017; 33(2):225-243.
5. Plantier D, Luauté J; SOFMER group. Drugs for behavior disorders after traumatic brain injury: Systematic review and expert consensus leading to French recommendations for good practice. *Ann Phys Rehabil Med*. 2016 Feb;59(1):42-57. doi: 10.1016/j.rehab.2015.10.003.

[CAM ICU Assessment](#)

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