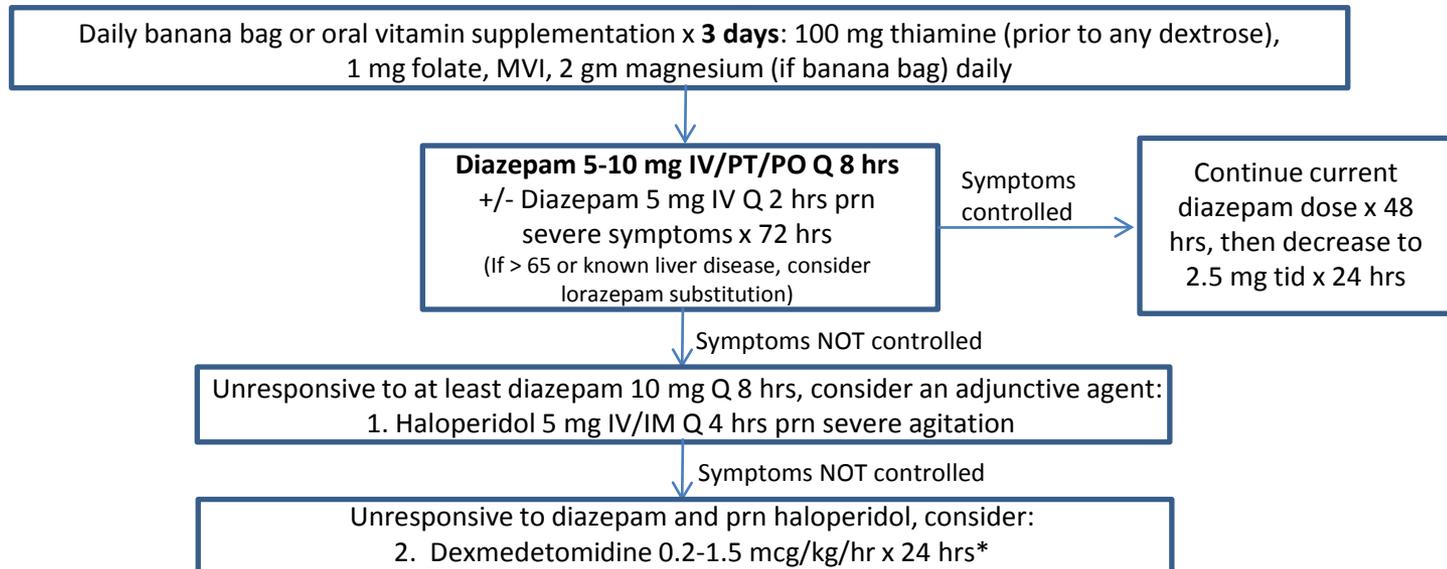


TICU Substance Abuse Guidelines

Alcohol Withdrawal:

- For INTUBATED patients, if receiving a propofol or midazolam infusion, NO ADDITIONAL therapy required while on these infusions.
- For patients who are not intubated or not receiving the above medications, DT prophylaxis may be initiated in patients who have 1) a history of delirium tremens or 2) a history of heavy alcohol use AND are demonstrating ≥ 2 of the following symptoms:
 - Nausea/vomiting
 - Tremor
 - Paroxysmal sweats and tachycardia (> 100 BPM)
 - Anxiety/agitation
 - Visual, tactile, or auditory disturbances
 - Clouded sensorium
 - Seizures
- The above symptoms of withdrawal may present within 6-48 hrs after cessation of alcohol and may progress to DTs if untreated.
- 5% of patients will develop DTs. This typically presents 48-72 hrs after the last drink, but has been reported up to 96 hrs later.
- Symptoms of DTs include tachycardia, hypertension, fevers, increased respiratory rate/respiratory alkalosis, visual/auditory hallucinations, and marked agitation. These symptoms may last up to 5 days. The untreated mortality rate may be up to 15%, largely due to the risk of aspiration. As a result, the need for a secure airway should be discussed in patients experiencing DTs.

Treatment Algorithm



* Start olanzapine (Zyprexa) 5 mg PO/PT Q 6 hrs if dexmedetomidine is started. Dexmedetomidine continuation > 24 hrs requires attending approval.

** The addition of clonidine 0.1-0.3 mg PO/PT TID may also be used adjunctively and may facilitate transitioning off dexmedetomidine.

*** Electrolyte disturbances are common in withdrawal. Potassium, magnesium, and phosphorus should be monitored daily. Consider the need for cardiac monitoring.

Opioid Withdrawal:

- Opioid withdrawal is typically not life-threatening, in contrast to alcohol withdrawal.
 - Opioids may be detected on a urine drug screen.
 - Symptoms may include hypertension, tachycardia, vomiting, mydriasis, excessive lacrimation and salivation.
 - Symptoms may be alleviated by central alpha-2 adrenergic blockade:
 - Clonidine 0.1-0.3 mg PO/PT TID preferred
 - Clonidine 0.1-0.3 mg/24 hrs patch (TTS 1-3) TD Q week (may require 24 hrs enteral overlap)
 - Benzodiazepines are not required as they have no cross-reactivity with opioid receptor agonists.
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- Other substance abuse syndromes may be best treated by alleviating symptoms, according to the sedation and analgesia protocol.
 - Patients with a history of regular benzodiazepine use may be restarted on their home medication or managed according to the alcohol withdrawal protocol.

References:

- Sarff M, Gold JA. Alcohol withdrawal syndromes in the intensive care unit. *Crit Care Med.* 2010; 38 (suppl.): S494-S501.
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- Mayo-Smith MF. Pharmacological management of alcohol withdrawal: a meta-analysis and evidence-based practice guideline. *JAMA.* 1997;278:144-151.

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