# Alcohol & Sedative Withdrawal Management

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#### Withdrawal

Characteristic group of signs & symptoms that typically develop after rapid, marked decrease or discontinuation of a substance of dependence, which may or may not be clinically significantly or life threatening.

#### Detoxification

Interventions aimed at managing acute intoxication & withdrawal in order to clear the substance from body & minimize physical harm.

The acute medical management of related medical problems is NOT included within the term detoxification.

Detox does NOT constitute substance use disorder treatment but is only one part of a continuum of care for substance use disorders.

## Pathophysiology of EtOH Withdrawal

GABA - Major inhibitory neurotransmitter

Chronic EtOH exposure decrease in GABA A alpha 1 receptor activity

NMDA (N-methyl-D-aspartate) - Major excitatory neurotransmitter

Chronic EtOH exposure increase in NMDA receptor concentration neuron hyperexcitability.

## **ASAM Criteria for treatment setting**

Level I-D: Ambulatory Detoxification Without Extended Onsite Monitoring

Level II-D: Ambulatory Detoxification With Extended Onsite Monitoring

Level II.2-D: Clinically Managed Residential Detoxification

Level III.7-D: Medically Monitored Inpatient Detoxification (hospital ward)

Level IV-D: Medically Managed Intensive Inpatient Detoxification (ICU)

## **Delirium Tremens**

Begins 3 to 5 days after last drink. Occurs in less than 5% of withdrawal patients

**Risk factors -** Acute concurrent medical illness, History of seizures or delirium tremens, Heavier & longer EtOH history, Age > 60, Elevated BAL on admission (greater than 300 mg/dl)

**Symptoms & signs** - Confusion & disorientation, Hallucinations, Hyper-responsiveness, Hypertension, Tachycardia, Fever

**Mortality** - without treatment = 20%

Temperature > 104 ~ 45% mortality; Seizures ~ 24% mortality

Cause of death - Pneumonia, Liver disease, Hypotension, Trauma

## **Indications for Admission**

Hx of complicated withdrawals, withdrawal seizures or delirium tremens

Hx of heavy prolonged EtOH use with a high degree of tolerance.

Abuse of multiple substances

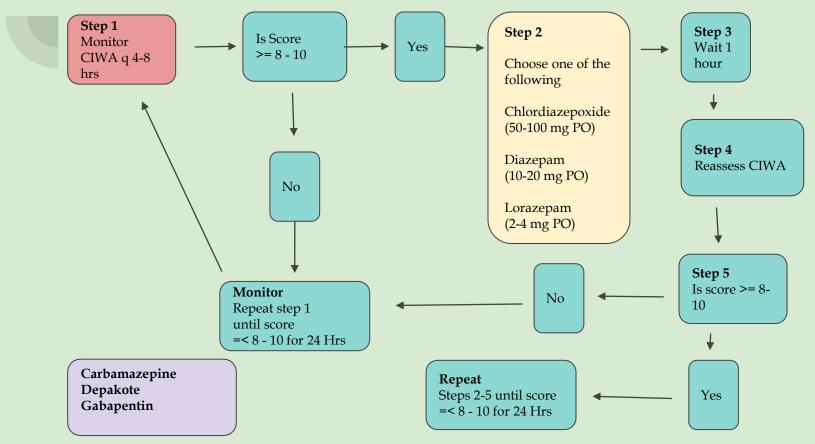
Concomitant psychiatric or medical illness

Pregnancy

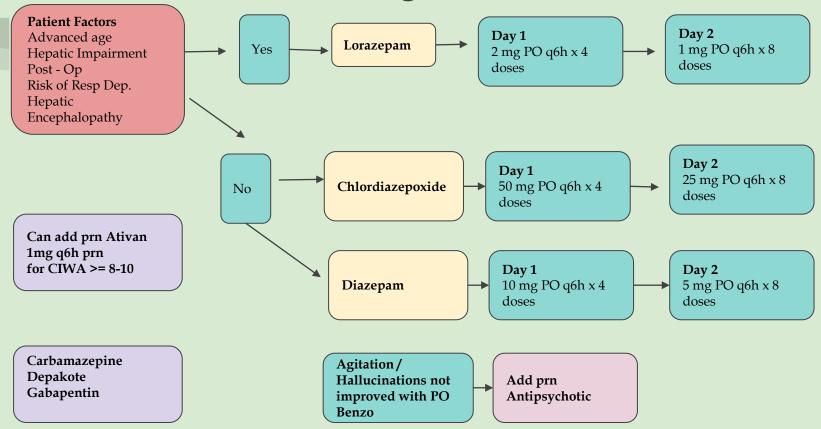
Lack of reliable support network

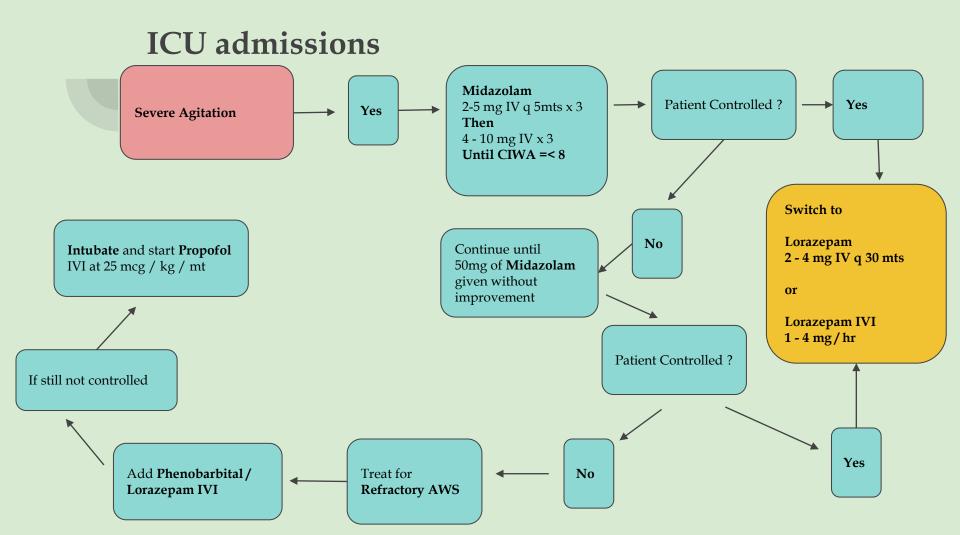
ICU - Age > 65, Significant cardiac disease, Hemodynamic instability, Marked acid-base disturbances, Severe respiratory disease, Serious infection, Active delirium tremens, Serious GI pathology, Temp > 103 F, Rhabdomyolysis, ARF, IV benzodiazepine drip (Ativan 12+ mg/day)

### Symptom driven medication regimen



#### **Structured medication regimen**





### **Benzo Withdrawal Syndrome**

An important difference between patients dependent on BZPs as part of their polydrug addiction and those dependent on BZPs for therapeutic purposes, such as panic disorder or a combination of both.

Symptoms of **BZP withdrawal** range from mild to severe and include anxiety, agitation, sleep disturbances, tremor, perceptual disturbances, paranoia, and seizures.

Besides withdrawal, patients discontinuing BZPs can experience recurrence and rebound.

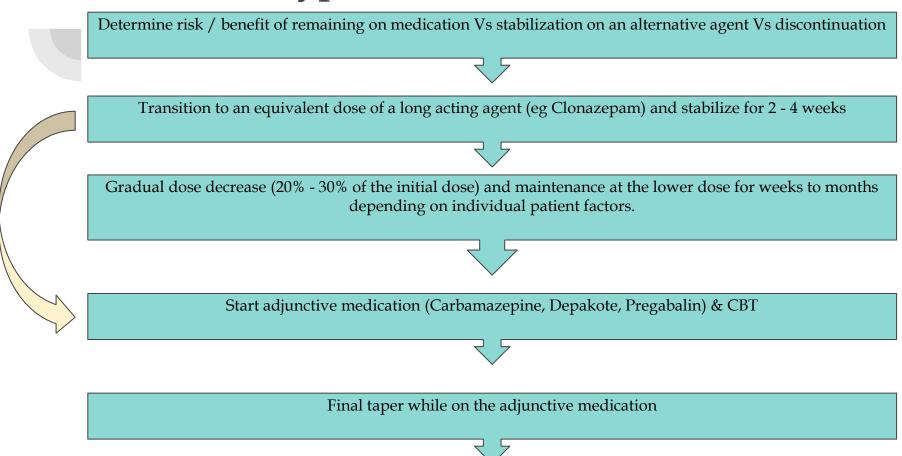
**Recurrence** is the slow return of the originally targeted psychiatric symptoms for which the patient was receiving BZP treatment. These symptoms may return over weeks or months and should be of no greater intensity than the original symptoms.

**Rebound** is a syndrome occurring more rapidly than recurrence. Patients with rebound will experience symptoms within hours to days of BZP discontinuation. Although the symptoms are qualitatively similar to the original symptoms, they may be transiently more intense. Both rebound insomnia and rebound anxiety have been well described. Rebound tends to be self-limited and of short duration.

Withdrawal is differentiated from either recurrence or rebound by the prominence of additional autonomic symptoms.

Finally, some authors have described a controversial **protracted withdrawal syndrome** that may cause mild autonomic and subjective distress over several weeks or months

# **Sedative Hypnotic Detox**



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