MEMC



То:	YNHHS Medical Staff	
From:	YNHHS ICU Committee	
Subject:	Treatment of Alcohol Withdrawal during Benzodiazepine Shortage	
Date:	April 20 th , 2020	

S: There is currently a critical shortage of the intravenous benzodiazepines (lorazepam and midazolam), therefore, there is a need to provide guidance for the treatment of Alcohol Withdrawal Syndrome (AWS).

B: Due to the current surge in critically ill, intubated COVID-19 patients, there is increased use of continuous infusion sedation for mechanically ventilated patients, which has led to short supplies of benzodiazepines. These agents are recommended for the treatment of AWS. Although symptom-triggered approaches are common practice, it does require frequent patient score assessment by the nurse, which <u>may</u> occur as often as every 15 minutes for MINDS. There is a need to limit the number of times it is required to enter COVID-19 positive patient rooms. Fixed-dose benzodiazepines in tapering doses have been found to be effective in the treatment of withdrawal symptoms, seizures, and delirium. Additionally, phenobarbital is a safe and effective alternative drug therapy to benzodiazepines for the treatment of AWS.

A: In the setting of the benzodiazepine shortages, changes are needed to the current AWS protocols to conserve supply of benzodiazepines and to provide guidance to prescribers on the use of fixed-dose benzodiazepine and phenobarbital monotherapy regimens.

R : Please see the following recommendations for the treatment of AWS:						
Patient	Mild-Moderate AWS	Severe AWS or Intubated				
Population						
COVID-19	CIWA symptom-triggered (Refer to "CIWA non-	Fixed-dose taper, RASS based:				
Positive	ICU" order set)	 Diazepam 10 mg IV q6h x 8 doses, followed 				
	 Diazepam PO, diazepam IV, and lorazepam 	by 5 mg IV q6h x 8 doses* <u>OR</u>				
	PO	 Lorazepam 2 mg IV q6h x 8 doses, followed 				
	 For patients at high risk of withdrawal (i.e., 	by 1 mg IV q6h x 8 doses* (for patients with				
	history of DTs), may consider fixed-dose	history of decompensated cirrhosis) OR				
	benzodiazepine therapy added to	Phenobarbital monotherapy				
	symptom-triggered regimen	*See Table 2 for rescue/adjunctive therapies				
COVID-19	<u>OR</u>	YAWP Protocol (MINDS score-based):				
Negative	Phenobarbital monotherapy	 Diazepam IV will be the preferred agent <u>OR</u> 				
		\circ Lorazepam IV (for patients with history of				
		decompensated cirrhosis) order entry will				
		be restricted to pharmacists				
		\circ Midazolam IV will not be available due to				
		shortage <u>OR</u>				
		Phenobarbital monotherapy				

R: Please see the following recommendations for the treatment of AWS:



 Table 2: *Rescue/Adjunctive Therapies for Severe AWS if Patients have Worsening Symptoms Despite Fixed-Dose

 Benzodiazepine Therapy

Patients on fixed-dose diazepam	 Add diazepam 10 mg IV q30 min PRN RASS ≥ +1 If patient receives ≥3 doses in 2 hours, initiate dexmedetomidine infusion If patient requires dexmedetomidine infusion at a rate higher than > 0.5 mcg/kg/hr, initiate benzodiazepine infusion
Patients on fixed-dose lorazepam	 Add lorazepam 2 mg IV q30 min PRN RASS ≥ +1 If patient receives ≥3 doses in 2 hours, initiate dexmedetomidine infusion If patient requires dexmedetomidine infusion at a rate higher than > 0.5 mcg/kg/hr, initiate benzodiazepine infusion

Appendix: Endorsements

Committee Name	Committee Members	Month/Day/Year
SIM ICU - COVID		04/16/20