Psychiatric Hospital at Vanderbilt

CENTRAL NERVOUS SYSTEM DEPRESSANT PROTOCOL(CNSDP) PHV				
Signature	Initials	Signature	Initials	
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Criteria for initiation of CNSDP Protocol is based on the patient's report and/or documented history of recent or long term use of CNS depressants (hypno-sedatives, benzodiazepines, barbiturates) and/or verification of + UDS of same substances.

(Caution: Phenobarbital is not recommended for use in Pregnancy).

Protocol Instructions:

MILD WITHDRAWAL SIGNS

Mark (+) if Present

- Notify MD for initiation of CNSDP Protocol if patient meets above criteria.
- Patient to remain on Seizure Precautions for the duration of the CNSDP Protocol.
- Assess and record vital signs and signs/symptoms q 4 hours (observe for objective signs).
- Document assessments and vital signs on the CNSDP Flowsheet.
- At the first sign of progression from mild to moderate/severe withdrawal signs, begin q 1 hour assessment and vital sign schedule.
 If all signs return to mild status (after a minimum of 2 hourly checks), resume q 4 hour assessment and vital sign schedule.
- If patient does not display symptoms of CNS depressant withdrawal within 72 hours, discontinue the protocol.
- Initiate Phenobarbital Load when patient displays at least 2 moderate to severe signs from the list below.
- · Continue to assess patient and record vital signs hourly prior to the administration of each Phenobarbital dose.
- Discontinue Phenobarbital Load when patient displays 2 or more of the following symptoms, indicating intoxication:

DATE:

TIME:

- > Patient asleep/difficult to arouse
- > Ataxic (unsteady gait)
- ➤ Nystagmus➤ Labile Mood
- P Ataxic (unsteady gait)
- > Dysarthric (thick tongue)

BASELINE

Blood Pressure									
Pulse: Record beats per minute (bpm)									
Mild agitation, irritability				<u> </u>					
Mild restlessness, anxiety									
Lightheadedness / dizziness	1								
Paraesthesia (tingling sensation)									
Mild tremors									
Nausea / anorexia	<u> </u>								
Mild diaphoresis									
Insomnia	 			<u></u>					ļ
TOTAL # Mild Signs Present					1774	11.1			
MODERATE to SEVERE WITHDRAWAL SIGNS Mark (+) if Present	BASELIN	Ē					.: .		
Hypertension: Increase in DBP greater than or equal to 20 mm Hg									П
in 2 hrs or less Tachycardia: Increase in pulse =greater than or equal to 20 bpm in		-	<u> </u>	 					
2 hrs or less	1								
Marked increase in agitation, irritability									
Marked increase in anxiety; very restless									
Progressive confusion/disorientation									
Increasingly severe fasciculation (Muscle twitching)									
Increasingly severe tremors									
Vomiting / dry heaves									
Increasingly severe diaphoresis									
Pre-seizure activity (e.g., aura, bright lights)									
Increasingly severe visual hallucinations									
Increasingly severe tactile hallucinations									
TOTAL # Moderate to Severe Signs Present		Ī .							

Patient has met the criteria for initiation of Phenobarbital Load by scoring at least 2 Moderate to Severe Signs at

(Date) Initials:

(Time)

Psychiatric Hospital at Vanderbilt

CENTRAL NERVOUS SYSTEM DEPRESSANT PROTOCOL (CNSDP) FLOWSHEET - PHV

Medication:

- Phenobarbital 120 mg po q 1hr prn; Initiate when patient meets CNSDP scoring criteria and discontinue when patient displays 2 or more symptoms of intoxication as per protocol.
- Hold dose for the following: If <u>baseline</u> BP less than or equal to 100/70, hold for BP less than or equal to 80/50; if baseline BP greater than 100/70, hold for BP less than 90/60; hold for pulse less than 60, resp less than 12.
- Maximum cumulative dosage not to exceed 2000 mg (unless additional orders received).

	TIME	DATE	ВР	PULSE	DOSE (mg)	CUMULATIVE DOSE (mg)	INITIALS
1				_			
2							
3							
4							
5				·		+ 14	
6							
7							
8						The second of the second	
9							
10							
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20							
21							
22			÷				
23							
24	-						
25							

Discontinue Phenobarbital Load when patient displays 2 or more of the following symptoms, indicating intoxication:

> Patient asleep/difficult to arouse

> Nystagmus

> Ataxic (unsteady gait)

> Labile Mood

> Dysarthric (thick tongue)

	PHENOBARE	BITAL CUMULATIVI	E DOSE SCHEDULE	
1 = 120 mg	6 = 720 mg	11 = 1,320 mg	16 = 1,920 mg	21 = 2,520 mg
2 = 240 mg	7 = 840 mg	12 = 1,440 mg	17 = 2,040 mg	22 = 2,640 mg
3 = 360 mg	8 = 960 mg	13 = 1,560 mg	18 = 2,160 mg	23 = 2,760 mg
4 = 480 mg	9 = 1,080 mg	14 = 1,680 mg	19 = 2,280 mg	24 = 2,880 mg
5 = 600 mg	10 = 1,200 mg	15 = 1,800 mg	20 = 2,400 mg	25 = 3,000 mg

Signature	Initials	Signature	Initials
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Management of Overdose: complications, antidotes, lethal doses

Acetaminophen	Hepatotoxicity: peaks at 72–96 hrs. Complete recovery generally day 4, but injury worse for alcoholics. Mortality: 1%–2%. Antidote/treatment: Acetylcysteine.
	Potential lethal dose: 140 mg/kg
Alcohol	Respiratory depression. Antidote/treatment; None Potential lethal dose: 350-700 mg (serum)
Amphetamines	Seizures; avoid neuroleptics. Antidote/treatment: None Potential lethal dose: 20–25 mg/kg
Barbiturates: 1. Short-acting 2. Long-acting	Respiratory depression: Antidote/treatment: None. 1. Short-acting: Potential lethal dose: >3 g 2. Long-acting: Potential lethal dose: >6 g
Benzodiazepine	Sedation, respiratory depression, hypotension, coma Antidote/treatment: FlumazenII reverses effects (but it may induce W/D in the dependent)
Carbon monoxide	Headaches, dizziness, weakness, N/V, diminished visual acuity, tachycardia, tachypnea, ataxia, seizures. Possible hemorrhages (cherry red spots on the skin), metabolic acidosis, coma, and death. Treatment: Hyperbaric oxygen
Cocaine	Peak toxicity 60–90 min. after use; systemic sympathomimesis & seizures, acidosis. Later cardiopulmonary depression, possible pulmonary edema. Treatment of acidosis, seizures, & HTN is imperative. Antidote/treatment: Narcan (empfrically)
Non-benzo hypnotics	Delirium, extrapyramidal syndrome. Potential lethal dose: Varies with tolerance
Hydrocarbons	GI, reparatory, and CNS compromise Antidote/treatment: <i>None</i>
Oploids	Miosis, resp. depression, obtundation, pulmonary edema, delirium, death. Antidote/treatment: Naioxone, naimefene helpful. Potential lethal dose: Varies with tolerance
Phencyclidine / ketamine	HTN, nystagmus, rhabdomyolysis Antidote/treatment: None. Don't attempt forced diuresis in O/D w/ suspected rhabdomyolysis.
Phenothiazines	Anticholinergism, extrapyramidal side effects, cardiac effects Antidote/treatment: monitor for 48 hours for cardiac arrhythmia. Lidocaine cardiac arrhythmia, norepinephrine for hypotension, sodium bicarbonate for metabolic acidosis, and Dilantin for seizures. Potential lethal dose: 150 mg/kg
Salicylates	CNS, acidosis Antidote/treatment: None Potential lethal dose: 500 mg/kg
Tricyclics	Cardiac effects, hypotension, anticholinergism Antidote/treatment: <i>None</i> Potential lethal dose: 35 <i>mg/kg</i>
Hallucinogens	Ring-substituted amphetamines; LSD / mescaline may lead to rhabdomyolysis, hyperthermia, hyponatremia Antiote/treatment: Reduce temperature, administer dantrolene
Inhalants	Cardiotoxicity, arrhythmias Antidote/treatment: Cardiac monitoring



American Psychiatric Association: www.nsych.org
PsychSIGN, the Psychiatry Student Interest Group Network: www.psychSIGN.org