

Dietetic Internship Clinical Case Study



Alcohol Withdrawal

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Introduction



- ❧ Alcoholism is such a common condition that virtually every clinician is confronted with its complications
- ❧ There are an estimated 8 million alcohol-dependent people in the United States
- ❧ Approximately 500,000 episodes of withdrawal severe enough to require pharmacologic treatment occur each year

Introduction



- ❧ Alcoholism in the VA population
 - ❧ Veterans have nearly 2.5 x the lifetime prevalence than Non-vets
 - ❧ Factors
 - ❧ PTSD- coping mechanism for stress
 - ❧ Military culture- often used in past for bonding during service
 - ❧ Homelessness and other social issues

Alcohol Withdrawal



What is it?

Alcohol Withdrawal



- ⌘ Set of symptoms seen when a person reduces/stops EtOH consumption after prolonged periods of excessive intake
- ⌘ Excessive abuse of EtOH leads to tolerance, physical dependence, and symptoms of withdrawal following discontinued use

Alcohol Withdrawal



- ❧ Symptoms of EtOH withdrawal
 - ❧ Occurs because alcohol is a central nervous system DEPRESSANT
 - ❧ EtOH both enhances inhibitory tone & inhibits excitatory tone
 - ❧ After chronic abuse only constant presence of EtOH preserves homeostasis
 - ❧ Abrupt cessation unmasks the adaptive responses to chronic use resulting in OVERACTIVITY of the CENTRAL NERVOUS SYSTEM

Alcohol Withdrawal



☞ Signs and Symptoms

☞ CNS-related symptoms

- ☞ Insomnia
- ☞ Tremors
- ☞ Anxiety
- ☞ GI upset
- ☞ Headache
- ☞ Sweating
- ☞ Palpitations

○ Severe symptoms

- Withdrawal seizures
- Alcoholic Hallucinosis
- Delirium Tremens
 - Hallucinations
 - Global Confusion
 - Marked motor activity
 - Severe disruption of sleep

Case Study



Case Study: PC



☞ Nutrition Assessment

☞ General Info

- ☞ 60 y.o. white male
- ☞ Unemployed, lives in SLC with fiancé
- ☞ Master's degree in Business
- ☞ No religion stated

☞ Anthropometrics

- ☞ 6'2"
- ☞ Weight history: range from 147 – 173 lbs (2009-present)
 - ☞ Admission wt: 153 lbs

Medical History



- ❧ Atrial Fibrillation/Flutter
- ❧ Mitral valve prolapse
- ❧ Congestive Heart Failure
- ❧ Stroke
 - ❧ Current warfarin Rx
- ❧ Hypertension
- ❧ Hyperlipidemia
- ❧ Hx of polysubstance abuse
- ❧ PTSD
- ❧ Depression
- ❧ Lactose Intolerance
- ❧ Hx of multiple EtOH detoxes
 - ❧ Hx of Delirium Tremens

Current Admission



- ❧ Pt reports recent increase in PTSD symptoms with nightmares & flashbacks leading to a loss of sobriety after 6 months
- ❧ Previously hospitalized in May 2011
 - ❧ Highland Ridge Hospital in Midvale, UT (Psychiatric & addiction treatment center)
- ❧ Endorses drinking “2 pints of vodka daily” with persistent PTSD symptoms
- ❧ “Very much would like to get sober”

PTSD



❧ Post Traumatic Stress Disorder

❧ Anxiety disorder occurring after a traumatic event with risk of injury or death

❧ **Symptoms:**

❧ “Reliving the event” which disturbs daily living

❧ Avoidance/Emotional Numbing

❧ Prolonged Arousal (eg easily startled, exaggerated response, insomnia)

Relevant Labs



- ❧ Albumin:
 - ❧ 3.7 (6/8/11)
 - ❧ 4.1 (5/31/11)
 - ❧ 3.0 L (5/8/11)

- ❧ AST: 45 H (6/8/11)

- ❧ ALT: 88 H (6/8/11)

- ❧ WBC: 14.02 H (6/8/11)

- ❧ INR: 0.8 (6/8/11) – non-therapeutic

Hospital Course: Jun 8- Jun 15



☞ Mental Health Unit

☞ Treatment:

☞ EtOH withdrawal

☞ WAS protocol, w/ Ativan Rx (benzodiazepine: anti-agitation med)

☞ Pt endorsed A/V hallucinations throughout stay

☞ Nutrition: Thiamine and folate supplement daily

☞ PTSD

☞ Citalopram for PTSD & depression

☞ Prazosin for nightmares

☞ Anticoagulation Therapy

☞ Donexaparin bridging

☞ Warfarin

Hospital Course: Jun 8- Jun 15



☞ Dietary Treatment

- ☞ Diet PTA: Fair appetite, eating only ½ of meals, inconsistent intake due to EtOH intake
- ☞ Current wt was 82% of IBW, BMI 19.9, recent wt. loss of 8% in 2.5 months
- ☞ Diagnosed with lactose intolerance in 2009

- ☞ Sent LACTOSE-FREE diet with Ensure TID
 - ☞ Included standard 3A HS snack (≈500 kcals)

 - ☞ Did not drink Ensure, d/c'd
 - ☞ Increased portion size

Hospital Course: Jun 8- Jun 15



- œ Discharge: June 15
 - œ No reported withdrawal symptoms
 - œ Steady on feet
 - œ Ambulating well around the MH ward

- œ Pt to continue follow-up with Alcoholics Anonymous

Admission: Jun 21



- ❧ Per ED note, patient drank EtOH within 2hrs of discharge and was “drinking nonstop for last 4 days”
 - ❧ 1 pint or more of vodka per day

- ❧ Fell several times day before admission
 - ❧ Head abrasion

- ❧ Admitted to Acute Medicine
 - ❧ MH deemed pt “too intoxicated/delirious for 3A admit”
 - ❧ Treatment plan
 - ❧ EtOH detox: CIWA, banana bag

WAS vs CIWA



- ❧ Two scales for assessing alcohol withdrawal symptoms
- ❧ WAS: Withdrawal Assessment Scale
- ❧ CIWA: Clinical Institute Withdrawal Assessment

WAS

- ❧ Used by VA MH for many years
 - ❧ Possibly developed in-house
- ❧ Includes vital signs
- ❧ Still used by some MD's in MH unit
- ❧ Score is used on a pt by pt basis
- ❧ Being phased out for CIWA

CIWA

- ❧ Standard scale used throughout MH field
- ❧ All “subjective” questions
- ❧ Standard scoring: >15 indicates need for pharmacologic intervention

“Banana Bag”



- ❧ IV fluid containing vitamins and minerals
 - ❧ Thiamine & Folate
 - ❧ “rally bag”: thiamine, folate, and magnesium

- ❧ B-vitamins are commonly depleted in alcoholics
 - ❧ EtOH replacing meals, reduced absorption of existing vitamins
 - ❧ Thiamine: Wernicke’s encephalopathy, Korsikoff’s Syndrome
 - ❧ Folate: Megaloblastic anemia

Update since last admission



∞ Current wt: 150 lbs

∞ 79% IBW

∞ BMI 19.3

∞ Albumin: 2.8 L

∞ Tube feeding consult:

∞ Poor intake, tremors/slowed motor movement d/t

EtOH detox interfering with swallowing

Diagnosis



❧ Problem:

❧ Inadequate oral food/beverage intake

❧ Related to:

❧ EtOh intake PTA and current EtOH detoxing resulting in decreased nutritional intake

❧ As evidenced by:

❧ Current NPO status and detox status

Diagnosis



❧ Problem:

❧ Involuntary weight loss

❧ Related to:

❧ Psychological issues: EtOH intake interfering with appetite/intake

❧ Physiological issues: EtOH detoxing and NPO status

❧ As evidenced by:

❧ Wt loss of 8% in 1.5 months

Nutrition Intervention



∞ Enteral Nutrition

- ∞ Promote formula @ goal rate of 85 mL/hr
 - ∞ 2040 kcals (Harris-Benedict needs: \approx 2000 kcal at 150 lbs wt)
 - ∞ 127.5 g PRO
 - ∞ 1700 mL water
- ∞ Add 400 mL extra water for fluid needs

∞ Appropriateness/Compliance of diet order

Monitoring



- ❧ CIWA discontinued
 - ❧ Librium meds are tied to CIWA scores
 - ❧ Fluctuating CIWA scores resulted in high doses of Librium, despite stable vital signs
 - ❧ Subjectivity of CIWA?

- ❧ Speech Therapy (7/1/11)
 - ❧ Swallowing Evals
 - ❧ Recommending advancing diet to full liquid diet with some pureed foods

- ❧ Nutrition modifications (7/1/11)
 - ❧ D/C Ensure, send Enlive, decrease tube feedings to PM only

Monitoring



☞ 7/3/11

- ☞ Discontinued Dobhoff Tube
- ☞ Advance to Regular diet textures

☞ 7/5/11

- ☞ Pt reports having a good weekend
- ☞ Significant physical improvements, can walk independently
- ☞ Tolerating regular diet
- ☞ Planned discharge today
 - ☞ Plan to attend AA
 - ☞ Follow-up with MH outpatient for depression & anxiety

Summary



- ❧ Patient with recurrent EtOH abuse and subsequent detox
- ❧ History of PTSD
- ❧ Discharged in late June 2011 only to come back 5 days later
- ❧ MH mentioned a good support system with friends and fiancé
 - ❧ “Renewed resolve to attend AA meetings”
- ❧ Future appointments:
 - ❧ July 12 MH appointment: No Show
 - ❧ Next appointment: July 20 @ Primary Care

References



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- ❧ Bauer M. “CIWA and COWS Assessment Tools” VA In-service. May 15, 2011.