Mind Matters ECHO

Module: Substance Use

Session 2: Effective Treatments for Substance Use

January 11, 2023



Mount Sinai Health Partners

Welcome!

- Pre-survey: bit.ly/sudmeeting2
- Hub team introductions
- Disclosures
- Questions during presentations



Case Presentation





David Muller, MD Mount Sinai Visiting Doctors

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Patient Information

Demographic Information	 61 year old cis male Medicaid Lives alone
Main Area of Concern	 Patient has a history of psychosis and has been institutionalized in the past, cannot function in the community, is increasingly paranoid, hallucinating, and is physically debilitated due to multiple sclerosis
Medical History	Multiple sclerosis, wheelchair bound as a result
Current Psychiatric Diagnoses	• Schizophrenia
Current Treatment Plan	• None
Substance Use	 No known current substance use Past significant substance use (not corroborated)
Current Medications	• None
Previous Psychiatric Hospitalization	Prolonged stay in a chronic care facility many years ago



Patient's Apartment









Patient Information

History of Trauma	• Unknown
Symptoms of Depression	 Lack of motivation Feelings of hopelessness, helplessness, and/or guilt Thoughts of suicide Unclear if these symptoms reflect depressive disorder or are a result of psychosis, MS, and concomitant frailty
Symptoms of Anxiety/Panic	 Fear of losing control Intrusive worrisome thoughts Above symptoms may be due to psychosis
Other Psychiatric Symptoms	 Hallucinations, paranoia, feelings of persecution, battling with the devil, being told (by the devil, by his father) that he should kill himself
Suicidality	 Past passive ideation (thoughts without plan and/or intent)
Areas of Support and Consultation Being Sought	 Psychotherapeutic consultation Identify appropriate behavioral health referrals, placement options



Effective Treatments for Substance Use

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Prameet Singh, MD Associate Professor, Psychiatry VP Behavioral Health, MSHS

Mount Sinai Health Partners

Didactic Presentation



Prameet Singh, MD

Vice President, Behavioral Health Mount Sinai Health System Associate Professor of Psychiatry Icahn School of Medicine at Mount Sinai

Learning objectives

- ► Understand the modalities for treatment of substance use disorders
- ► Learn the basic principles of non-pharmacological interventions
- Learn about the use of pharmacological agents to treat substance use disorders in the PCP's office

Approaches to treatment

Non-pharmacologic treatments

- Promoting motivation and adherence
- -Skills to reduce or stop using
- Skills to stay stopped (relapse prevention)
- -12-step groups and facilitation (TSF)
- Self Management And Recovery Training

Pharmacological agents

- -Agonists
- -Anti-craving drugs
- Antagonists or blockers

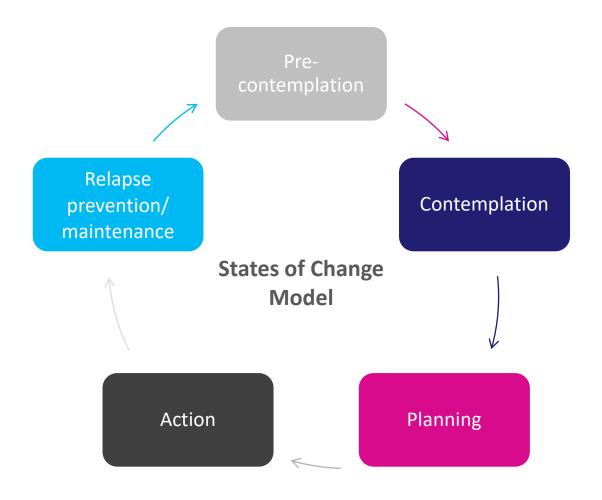
Promoting motivation and adherence

- ► Utilize the Stages of Change Model
- Motivational interviewing
- Motivational enhancement therapy (MET)



Stages of change

- ► Pre-contemplation
- ► Contemplation
- ► Planning
- Action
- ► Relapse prevention/maintenance



Tips to cut down or stop

- ► Avoid exposure
- Avoid cues
- ▶ Prepare for and prevent response to cue

Relapse prevention

- Preventing the abstinence violation effect
- Identifying high-risk situations
- ► Highlighting tools to prevent use
- ► Reducing harm

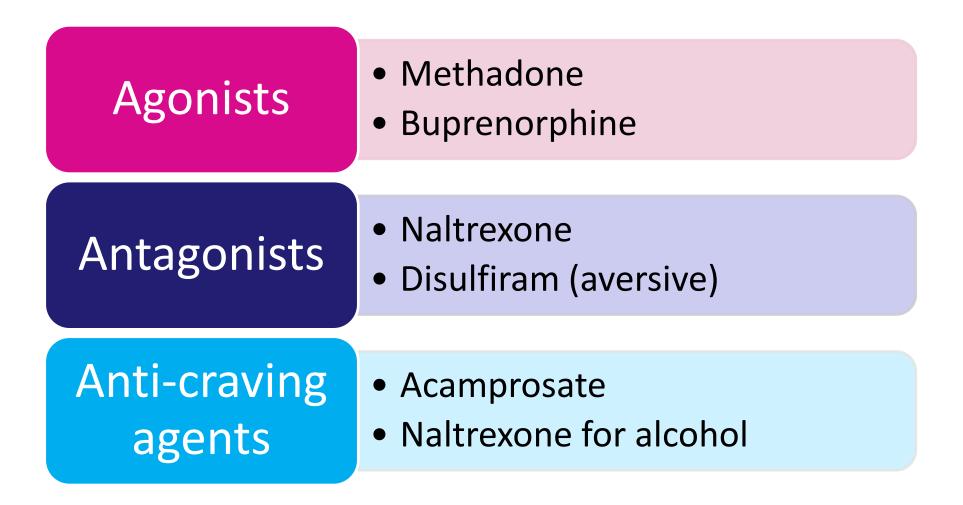
12-step groups

- ► Concepts
- ► Common misconceptions
- Advantages
- Disadvantages
- ► Twelve-step facilitation (TSF)

SMART Recovery

- ► Uses CBT and MET
- ► Focus on 4-Point Programming
 - -Building motivation
 - Coping with urges
 - Managing thoughts, feelings, and behaviors
 - Living a balanced life

Pharmacological Agents



Pharmacological options by drug class

Opiates

- Blocker: naltrexone
- Agonist: buprenorphine, methadone
- Anti-craving: both agonists

Alcohol

- Anti-craving: naltrexone, acamprosate
- Aversive/blocker: disulfiram (Antabuse)

Stimulants, hallucinogens, cannabinoids

• No FDA-approved agents

Naltrexone

- ► FDA approved for Alcohol Use Disorder (AUD) and Opioid Use Disorder (OUD)
- ▶ Pure mu opioid antagonist
- Modifies HPA axis to suppress ethanol consumption

Route	Brand Name	Dosage	Notes
Oral	Revia	50-100 mg daily	Significant first- pass metabolism
Depot injection	Vivitrol	380 mg deep IM every 4 weeks	Half life = 10-12 days

Naltrexone adverse effects

- ► Three-fold increase in ALT and AST in 20% of patients receiving IM form
- ► No other consistent side effects
- ► Some patients report a mild dysphoria or decreased experience of pleasure

Acamprosate

- NMDA antagonist effect
- Increases beta-endorphins
- ► May influence GABA transmission
- Purported mechanism is alleviating sub-syndromal protracted withdrawal

Disulfiram (Antabuse)

- Alcohol dehydrogenase II inhibitor
- ► Also inhibits dopamine beta-hydroxylase
- Allows accumulation of aldehydes
- ► Diaphoresis, nausea, headache, facial flushing, hypotension, tachycardia
 - Can occur UP TO 14 days after last dose
- Adverse effects
 - Common: headache, tiredness, metallic taste
 - Rare (1/1000): dermatitis, hepatitis, neuropathy

Buprenorphine

- Partial agonist or agonist antagonist at mu receptor
- Very high affinity and very long receptor occupancy
- ► Ceiling agonist effect
- ► Safe in pregnancy

Methadone

- ► Nyswander and Dole 1966
- ► Long-acting, pure agonist
- Slow onset of action
- ► Long half life
- ► Extensive protein binding
- ► Analgesia is short lived: after 4-6 hours tolerance is built
- ► 70mg is considered an effective blocking dose

Opioid (methadone) treatment programs

- Uniquely regulated
- Must meet full criteria
- ▶ Gradual increase in dose and decrease in required attendance with "take homes"
- Buprenorphine is a far better option for most

Summary

- ► Numerous options exist both in the pharmacological and non-pharmacological realm
- Adherence to treatment is key and is a target of interventions
- Treatment should be matched to stage of change
- Non-pharmacological treatment takes as little time as pharmacological and is just as easy in the PCP's office
- Combination of approaches is best
- Assess stage of change and match accordingly

Summary (continued)

- Medication-assisted treatment (MAT) options are FDA approved only for Opioid Use Disorder (OUD) and Alcohol Use Disorder
- ▶ It is now the standard of care to offer MAT
- ► Methadone's analgesic effects are very short lived compared to its half life
- Medication agonist treatment for OUD has 2 options but buprenorphine is superior for almost all patients



ANY QUESTIONS?

THANK YOU!