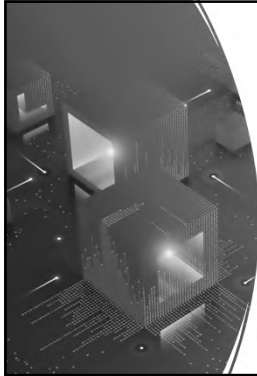





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Alcohol Use Disorder and Other Common Addictions in the Elderly

- David Best, DO, ABAM
- March 24, 2024
- 2024 AOCOPM Midyear Educational Conference at Sam Houston State University College of Osteopathic Medicine in Conroe, Texas

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Disclosures

None


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Background

- Relevant Experience
 - Best Medical Services 2012-present
 - Hospice Physician, HCR Manorcare, 2013-2021
 - Attending Physician, Meadowbrook ECF, 2005-2016
 - Bellaire Family Health Center 2005-2012
- Board Certified in Family Medicine, 2005
- Board Certified in Addiction Medicine, 2014
- Current Board Member with Novello Provider Organization, Des Moines University Alumni Association, Michigan Osteopathic Association

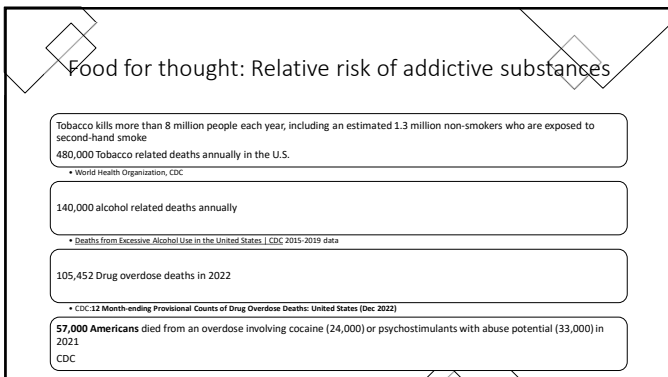
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Objectives

- Review Common Addictions
- Review mortality and morbidity risk from alcohol
- Review Screening tests, diagnostic criteria, and treatment options for AUD
- Review Case Studies

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Food for thought: Relative risk of addictive substances

Tobacco kills more than 8 million people each year, including an estimated 1.3 million non-smokers who are exposed to second-hand smoke
480,000 Tobacco related deaths annually in the U.S.
• World Health Organisation, CDC

140,000 alcohol related deaths annually
• Deaths from Excessive Alcohol Use in the United States | CDC, 2015-2019 data

105,452 Drug overdose deaths in 2022
• CDC: 12 Month-ending Provisional Counts of Drug Overdose Deaths: United States (Dec 2022)

57,000 Americans died from an overdose involving cocaine (24,000) or psychostimulants with abuse potential (33,000) in 2021
CDC

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From the World Health Organization

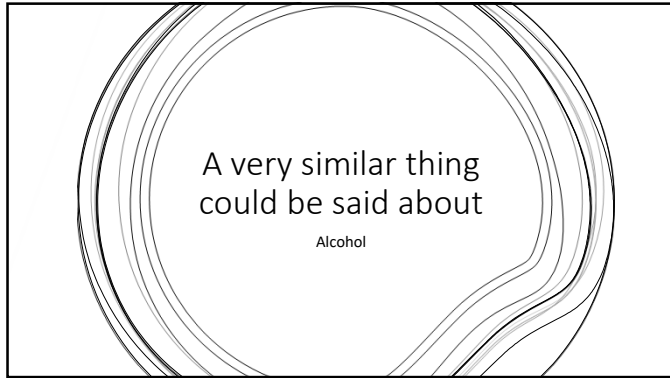
There is a fundamental and irreconcilable conflict between the tobacco industry's interests and public health policy interests.

The tobacco industry produces and promotes a product that has been proven scientifically to be addictive, to cause disease and death and to give rise to a variety of social ills, including increased poverty.

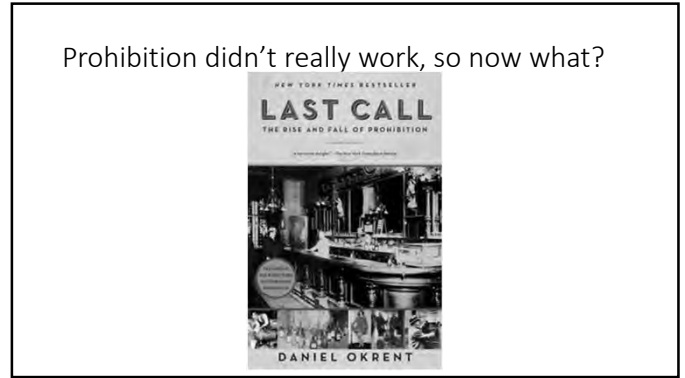
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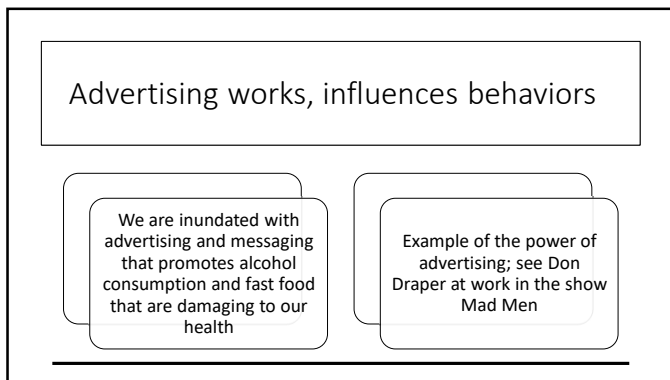
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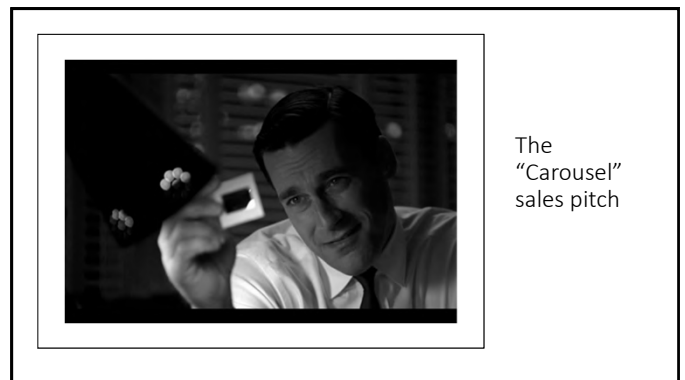
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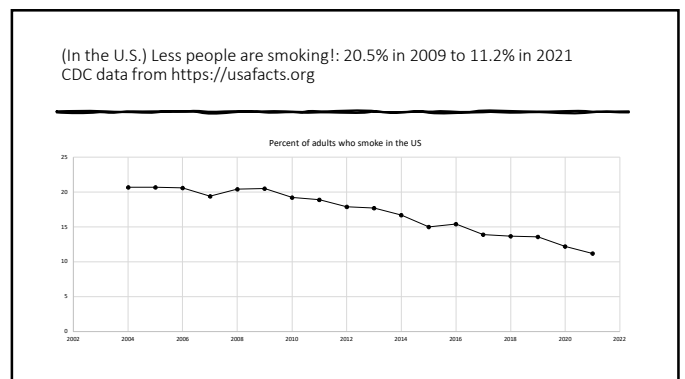
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WHO MPOWER Initiative	
Monitor	Monitor tobacco use and prevention policies.
Protect	Protect people from tobacco use.
Offer	Offer help to quit tobacco use.
Warn about	Warn about the dangers of tobacco.
Enforce	Enforce bans on tobacco advertising, promotion and sponsorship.
Raise	Raise taxes on tobacco.

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This should be part of every patient visit

- 1.ASK about Tobacco use
- 2.ADVISE patient quit Tobacco, directly and clearly
- 3.ASSESS WILLINGNESS to quit Tobacco, prior attempts and current use
- 4.ASSIST the patient in cessation with support, resources, medications, and expected initial adverse symptoms on quitting
- 5.ARRANGE QUIT DATE and follow-up, and planned responses to difficult situations with risk of returning to Tobacco

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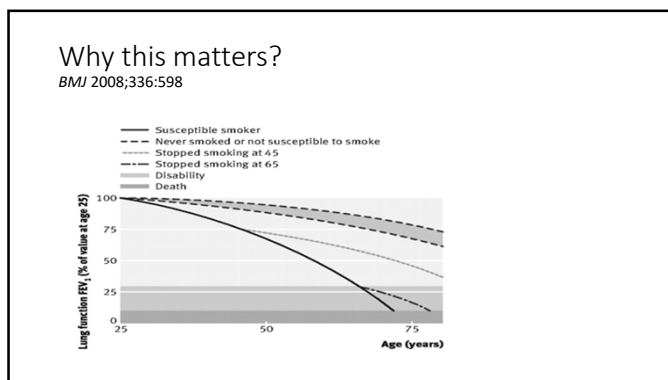
13

Efficacy of smoking cessation treatment

- 1.Smokers interested in quitting: 70%
- 2.Smokers who quit without additional help: 7.9%
- 3.Smokers who quit with only advice of physician: 10.2%
- 4.Smokers who quit with Nicotine Replacement: 26%
- 5.Smokers who quit with combined therapy below: 35%
 - 1.Behavioral support
 - 2.Bupropion
 - 3.Nicotine Replacement

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Lung Cancer Screening

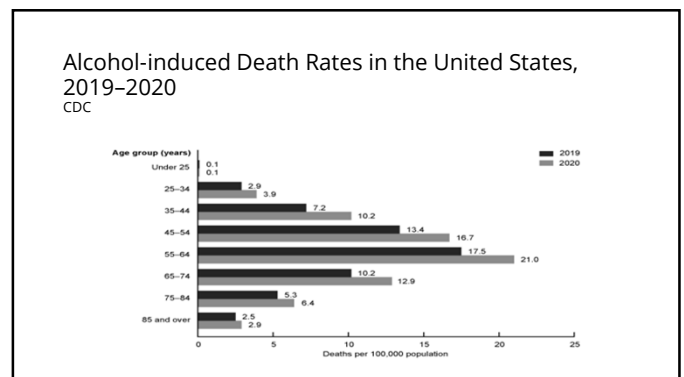
- Low Dose Lung CT indications
 - Ages 50-80
 - Pack year history (20 year minimum)
 - Time since quit (within last 15 years)

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**Each year in the United States excessive alcohol use is responsible for:**

- 140,000 DEATHS
 - shortening those lives by an average of 26 years
- 1 in 5 DEATHS
 - among adults ages 20 to 49
- \$249 BILLION+
 - in economic costs, or \$2.05 a drink
- www.niaaa.nih.gov

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When does alcohol use become a problem?

- Excessive alcohol use is a leading preventable cause of death in the United States.
- Over centuries, alcohol has become the most socially-accepted addictive drug worldwide.
- Excessive alcohol use includes:
 - Binge drinking, defined as consuming 4 or more drinks on an occasion for a woman or 5 or more drinks on an occasion for a man.
 - Heavy drinking, defined as 8 or more drinks per week for a woman or 15 or more drinks per week for a man.
 - Any alcohol use by pregnant women or anyone younger than 21.

• CDC

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Re-evaluation of guidelines needed

- Depending on the country, current guidelines (including those in the US) could allow levels of drinking high enough to shorten life expectancy.

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2018 Study showed lives shortened even with “moderate drinking”

- The Study found that regardless of gender, higher alcohol consumption was associated with:
 - higher rate of stroke, fatal aneurysms, heart failure, and death.
 - When compared with people who drank less than seven drinks per week:
 - Adults drinking seven to 14 drinks per week could expect, on average, a six-month shorter life expectancy (as of age 40)
 - Those drinking 14 to 25 drinks per week could expect a shorter life expectancy by one to two years
 - Those drinking more than 25 drinks per week (>3.5 per day) could expect a shorter life expectancy by four to five years
- “Risk thresholds for alcohol consumption: combined analysis of individual-participant data for 599,912 current drinkers in 83 prospective studies”
• The Lancet Vol 391 April 14, 2018

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Age-related physiological changes

decreased total body water and increased body fat →

contribute to higher blood alcohol concentration and →

prolonged alcohol effects in older adults compared to younger individuals

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From www.fpnotebook.com

Prevalence

- Alcohol Dependence: 8-14% lifetime
- Alcohol Use Disorder: 29% lifetime (14% one year), 14.5 Million in U.S. as of 2022

Age of symptom onset: 15 to 19 years

Familial predisposition in Autosomal Dominant pattern

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Chronic Health Effects of Excessive Alcohol Use

- Over time, excessive alcohol use can lead to chronic diseases and other serious problems, including alcohol use disorder and problems with learning, memory, and mental health.
- **High Blood Pressure, Heart Disease, and Stroke**
 - Binge drinking and heavy drinking can cause heart disease, including cardiomyopathy, as well as irregular heartbeat, high blood pressure, and stroke.
- **Liver Disease**
 - Excessive alcohol use takes a toll on the liver and can lead to fatty liver disease (steatosis), hepatitis, fibrosis, and cirrhosis.

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Specific risks in elderly

- Increased falls
- Alcoholic dementia
- Wernicke-Korsakoff syndrome

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Wernicke-Korsakoff (WK) syndrome

- is a serious brain condition that is usually, but not exclusively, associated with chronic alcohol misuse and severe alcohol use disorder (AUD).
- The prevalence of WK syndrome across populations is not well established, and researchers estimate that it may remain undiagnosed in approximately 80 percent of patients.
- Wernicke-Korsakoff syndrome affects more men than women, usually between ages 30 and 70 years. Most alcohol-related cases of WKS involve men and those over age 40.
- results from brain damage associated with AUD, combined with vitamin B1 (thiamine) deficiency. In people with severe AUD, poor nutrition decreases the ability of the gut to absorb thiamine
 - NIH/NIAAA website

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Symptoms of Wernicke's disease include:

- Confusion
- Lack of energy, hypothermia, low blood pressure, or coma
- Lack of muscle coordination that can affect posture and balance and can lead to tremors
- Vision problems including: nystagmus, double vision, misaligned or crossed eyes, and eyelid drooping
 - Wernicke encephalopathy may be present in the general population with a prevalence of around 2%, and is considered underdiagnosed
 - *Psychosomatics*. 53 (6): 507–516

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Symptoms of Korsakoff's psychosis include:

- Potentially severe, irreversible memory impairments, including problems forming new memories (anterograde amnesia) and recalling memories
- Making up inaccurate stories about events (i.e., confabulation) or remembering events incorrectly
- Experiencing hallucinations
- Repetitious speech and actions
- Problems with decision making as well as planning, organizing, and completing tasks
- Lack of motivation and emotional apathy

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Cancer risk increases with alcohol

Drinking alcoholic beverages can contribute to cancers of the mouth and throat, larynx, esophagus, colon and rectum, liver, and breast (in women).

For some cancers, even less than one drink in a day can increase risk. The less alcohol a person drinks, the lower the risk of these types of cancer.

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Immediate Effects of excessive alcohol use

Excessive alcohol use has immediate effects that increase the risk of many harmful health conditions

Injuries, Violence, and Poisonings

- Drinking too much alcohol increases the risk of injuries, including those from motor vehicle crashes, falls, drownings, and burns.
- It increases the risk of violence, including homicide, suicide, and sexual assault.
- Alcohol also contributes to poisonings or overdoses from opioids and other substances.
- A recent US study found that more than 40% of people who died violently had alcohol in their bloodstream.

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Pathophysiology

1. Alcohol increases activity at GABA Receptors with secondary CNS depression
 1. Chronic Alcohol use down regulates GABA Receptors and up regulation of NMDA receptors
2. Alcohol Withdrawal results in excessive excitation
2. Limbic System drive state
 1. Bad decision making and impulsiveness
3. Alcoholics have lower level of endogenous endorphins

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Physiology: Alcohol Digestion Pathway

1. One ounce Alcohol takes 1 hour, mouth to excretion
2. No Digestion required before absorption
3. Small amount absorbed in Stomach
4. Most Alcohol absorbed in Small Intestine (duodenum)
5. Metabolism
 1. Alcohol converted to acetaldehyde
 2. Acetaldehyde converted in liver to acetic acid
6. Excretion
 1. Renal excretion: 10%
 2. Hepatic excretion: 90%

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"The Truth About Alcohol"

- "Risk starts to go up well below levels where people would think 'Oh, that person has an alcohol problem,'"
 - Dr. Tim Naimi, director of the University of Victoria's Canadian Institute for Substance Use Research
- Increased cancer risk due to acetaldehyde.
 - This toxic metabolite of alcohol can damage DNA, enabling the out-of-control cell growth that creates cancerous tumors
 - <https://theweek.com/science/health/1021892/the-truth-about-alcohol>

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Mechanism of alcohol metabolism

Ethanol metabolites and oxidative stress (through accumulation of reactive oxygen species—ROS) are thought to be the main causes of alcohol-induced organ damage.

A majority of ethanol is metabolized in the liver by the enzyme alcohol dehydrogenase (ADH) to produce acetaldehyde, which is then further metabolized to another less active byproduct, acetate, by aldehyde dehydrogenase (ALDH)

The enzymes cytochrome P450 2E1 (CYP2E1) and catalase also break down alcohol to acetaldehyde.

• Int J Environ Res Public Health. 2010 Apr; 7(4): 1285–1301.

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Screening

- The US Preventive Services Task Force recommends that health care providers **screen all adults for excessive alcohol use and provide brief intervention** and referral to treatment as needed.
- QUESTION on Medicare Wellness Visit and Health Risk Assessment
- CAGE
- AUDIT-10

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- Have you ever felt you should Cut down on your drinking?
- Have people Annoyed you by criticizing your drinking?
- Have you ever felt bad or Guilty about your drinking?
- Have you ever had a drink first thing in the morning to steady your nerves or to get rid of a hangover (Eye opener)?
- Scoring: Item responses on the CAGE are scored 0 or 1, with a higher score an indication of alcohol problems. A total score of 2 or greater is considered clinically significant

CAGE

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The Alcohol Use Disorders Identification Test: Interview

Version

Read questions as written. Record answers carefully. Begin the AUDIT by asking those 4 questions going to ask you some questions about your use of alcohol. Remember: during this year. Consider what amount is "harmless" by using brief examples of how, when, why, etc. Code answers in terms of number of drinks. Record the correct answer number in the box at the right.

1. How often do you have a drink containing alcohol? (1) Never (2) 1-2 times a week (3) 2-3 times a week (4) 4-5 times a week (5) 6 or more times a week	6. How often during the last year have you had a feeling of guilt or remorse after drinking? (1) Never (2) 1-2 times (3) 3-4 times (4) 5-6 times (5) 7 or more times
2. How many drinks containing alcohol do you have on a typical day when you are drinking? (1) 1 (2) 2 (3) 3 (4) 4 (5) 5 or more	7. How often during the last year have you had a feeling of guilt or remorse after drinking? (1) Never (2) 1-2 times (3) 3-4 times (4) 5-6 times (5) 7 or more times
3. How often do you have six or more drinks on one occasion? (1) Never (2) 1-2 times (3) 3-4 times (4) 5-6 times (5) 7 or more times	8. How often during the last year have you been unable to remember what happened the night before when you had been drinking? (1) Never (2) 1-2 times (3) 3-4 times (4) 5-6 times (5) 7 or more times
4. How often during the last year have you found that you were not able to stop drinking once you had started? (1) Never (2) 1-2 times (3) 3-4 times (4) 5-6 times (5) 7 or more times	9. How often during the last year have you been unable to remember what happened the night before when you had been drinking? (1) Never (2) 1-2 times (3) 3-4 times (4) 5-6 times (5) 7 or more times
5. How often during the last year have you failed to do what you usually expect from you because of drinking? (1) Never (2) 1-2 times (3) 3-4 times (4) 5-6 times (5) 7 or more times	10. How a relative or friend or a doctor or another health worker has concerned about your drinking? (1) Yes, during the last year (2) Yes, during the last year (3) Yes, during the last year (4) Yes, during the last year (5) Yes, during the last year

Record total of specific items here

Start scores of 8 or more are recommended as indicators of hazardous and harmful alcohol use. Higher scores indicate greater likelihood of hazardous and harmful drinking, or other greater severity of alcohol problems and dependence.

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AUDIT-10 SCORING

- The range of possible scores is from 0 to 40 where 0 indicates an abstainer who has never had any problems from alcohol.
- A score of 1 to 7 suggests low-risk consumption according to World Health Organization (WHO) guidelines.
- Scores from 8 to 14 suggest hazardous or harmful alcohol consumption
- A score of 15 or more indicates the likelihood of alcohol dependence (moderate-severe alcohol use disorder).

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Alcohol Use Disorder (AUD)

According to the DSM-5, alcohol use disorder is "a problematic pattern of alcohol use leading to clinically significant impairment or distress, as manifested by at least two of the following [criteria], occurring within a 12-month period."

ICD-10 code: F10.10 mild or F10.20 moderate to severe

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DSM-5 AUD Criteria

- Alcohol is often taken in larger amounts or over a longer period than was intended.
- There is a persistent desire or unsuccessful efforts to cut down or control alcohol use.
- A great deal of time is spent in activities necessary to obtain alcohol, use alcohol, or recover from its effects.
- Craving, or a strong desire or urge to use alcohol.
- Recurrent alcohol use resulting in a failure to fulfill role obligations at work, school, or home.
- Continued alcohol use despite having persistent or recurrent social or interpersonal problems caused or exacerbated by the effects of alcohol.
- Important social, occupational, or recreational activities are given up or reduced because of alcohol use.
- Recurrent alcohol use in situations in which it is physically hazardous.
- Alcohol use is continued despite knowledge of having a persistent or recurrent physical or psychological problem that is likely to have been caused or exacerbated by alcohol.
- Tolerance, as defined by either of the following: a. a need for markedly increased amounts of alcohol to achieve intoxication or desired effect b. a markedly diminished effect with continued use of the same amount of alcohol.

The characteristic withdrawal syndrome for alcohol that is relieved with drinking alcohol or taking substance (such as a benzodiazepine) is taken to relieve or avoid withdrawal symptoms.

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AUD Severity

- 2-3 criteria met → Mild
- 4-5 criteria met → Moderate
- 6 or more criteria met → Severe

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Protocol: Brief Intervention for Problem Drinking (www.fpnotebook.com)

1. Chemical Dependency Brief Counseling in the office
2. Track patient progress
 1. Metrics for the last month
 1. Number of Alcohol free days
 2. Number of heavy drinking days
 3. Maximum number of drinks in one day
 2. Lab markers
 1. Biomarkers of Alcohol Use
 1. Urine Ethyl Glucuronide (eTG)
 2. Urine Ethyl Sulfate
 3. Serum Gamma glutamyl transferase (GGT)
 4. Carbohydrate deficient Transferrin

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AUD Treatment

• Protocol: Alcohol Use Disorder

1. Initial Management

1. Alcohol Detoxification (outpatient or inpatient)
2. Alcohol Withdrawal Protocol

2. Long-Term Abstinence Programs (12 step programs appear most effective)

1. Alcoholics Anonymous
2. Sponsor
3. Treatment Program
4. Transition House

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Adjunctive Medications for abstinence (medication assisted treatment (MAT) for alcohol)

Best evidence is for naltrexone, gabapentin and topiramate
First line

1. Naltrexone (Vivitrol, Revia)

1. Blocks Opioid receptors
2. Decreases pleasure from Alcohol
3. Effective in reducing Alcohol use in non-abstaining patients

4. Dosing

1. Oral: 50 mg orally daily (\$50/month in 2019)
2. IM: Vivitrol once monthly IM (\$1500/month in 2019)

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Second Line: Gabapentin

• KEY POINTS

- Gabapentin has been shown to be safe and effective for mild alcohol withdrawal but is not appropriate as mono-therapy for severe withdrawal owing to risk of seizures.
- During early abstinence, gabapentin may improve sleep, cravings, and mood—factors associated with relapse.
- Gabapentin is being used recreationally to achieve or enhance euphoria, but its misuse potential appears to be low when taken at therapeutic doses by patients without a history of drug abuse.
 - “Gabapentin for alcohol use disorder: A good option, or cause for concern?”
 - Cleveland Clinic Journal of Medicine December 2019, 86 (12) 815-823

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Dosing gabapentin for AUD

- Gabapentin significantly improved the rates of abstinence and no heavy drinking.
 - The abstinence rate was 4.1% (95% CI, 1.1 to 13.7) in the placebo group
 - 11.1% (95% CI, 5.2 to 22.2) in the 900 mg group
 - 17.0% (95% CI, 8.9 to 30.1) in the 1800 mg group ($p = 0.04$ for linear dose effect, NNT = 8 for 1800 mg).
- “Gabapentin Treatment for Alcohol Dependence: A Randomized Controlled Trial”
- JAMA Intern Med. 2014 Jan 1; 174(1): 70–77.
- 300mg x1 day, then 300mg bid x1 day then 300mg tid
- May titrate to 600mg tid

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Second Line: Topiramate

- Decreases Alcohol use severity and heavy, binge drinking
- Improves abstinence, well being, quality of life in Alcoholics
- Requires dose titration
 - Start 25mg daily for 1 week, then increase by 25mg daily every week
 - Target dose 100-150mg twice daily
- Johnson (2004) Arch Gen Psychiatry 61:905-12 [PubMed]

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Other options for MAT ?Third Line

1. Disulfiram (Antabuse)

1. Taken 250 to 500 mg orally daily
2. Negative side effects with drinking alcohol

2. Campral (Acamprosate)

1. Balances GABA and glutamate Neurotransmitters
2. Reduces anxiety from abstinence (with better efficacy in abstinence than Naltrexone)
3. May prevent relapse in one in 12 patients with 3-6 months of use
4. Dosing: 2 tabs orally three times daily (\$200/month in 2019)
 1. Risk of lower compliance due to a very large tablet taken 3 times daily

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Baclofen, 4th line?

- A reduction of 13.6 heavy drinking days and an increase of 12.9 abstinent days over 16 weeks compared to placebo is clinically meaningful and an indication of the progress that can build on patients' motivation to reduce or stop drinking
 - The trial tested it on 120 people with the condition
 - *Neuropsychopharmacology* volume 46, pages 2250–2256 (2021)
- **No different than a placebo**
 - A review of 12 clinical trials involving 1,128 participants with AUD.
 - *Cochrane Database Syst Rev*, 2018; 2018(11): CD012557.

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Case Study 1

73 year-old female presented on 11-28-23 for initial visit at Catholic Human Services office. Her husband and her daughter are with her in the office.

In her words the reason for consultation: "I want to stop drinking"

She stated she had been a "social" drinker for many years and would have 1-2 drinks per day until a couple of years ago when her use escalated.

Multiple ER visits since 2021 when she has tried to quit and would end up having significant anxiety (?attributed to withdrawals)

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More history

- No inpatient treatments or legal consequences from AUD
- Has had counseling with Catholic Human Services therapist for a few months
- Is prescribed clordiazepoxide for helping with withdrawals
- PMH: GERD, Barrett's esophagus, asthma/COPD, hyperlipidemia, hearing loss, HTN, allergic rhinitis, history of renal cell carcinoma 1999, breast cancer, colon cancer, renal artery stenosis, diverticulosis, anxiety
- PSH: hemicolectomy 2016, right RTC surgery 2010, left breast lumpectomy 2023
- Social History: retired RN, lives with her husband

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Screening tests

CAGE was
positive

AUDIT-10 score
was 22

Has 9 out of 11
criteria on DSM-
5

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Physical Exam

Wt.: 173 lb. Ht/Ln: 65 in BMI: 28.8 Pulse: 80

- GENERAL: WNW; A&O times 3; NAD
- HEENT: PERRLA with EOMI bilateral; pupils 4mm bilateral; hard of hearing
- MUSC: normal gait; no tremors
- PSYCH: normal affect; good insight and judgment; she asks multiple times whether she can take another Librium this afternoon; we discussed how that she should discontinue this medication as it has addiction potential in the same way as alcohol; she agrees

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Assessment

Continuous chronic alcoholism (F10.20): recent normal cbc, CMP

Anxiety disorder (F41.9): generalized vs. withdrawal induced; she has been on prn Xanax 0.5mg ½-1 tablet daily for 10+ years and now Librium has been added and she is taking this daily

Benign hypertension (I10): at goal with recent office visits

Body mass index [BMI] 28.0-28.9, adult (Z68.28): Exercise will help with both physical and mental health.

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Plan

Reviewed medication options including acamprosate, disulfuram, naltrexone, gabapentin. The naltrexone daily tablet was determined to be the best fit for her.

PRESCRIBE: naltrexone 50 mg oral tablet, take 1 tablet daily, # 15, RF: 0. (Transmitted by David Best, DO)

PROVIDED: Patient Education (11/28/2023): reviewed risks of continued drinking which includes hepatitis, memory loss, confusion and falls. She is also aware of risk of continued use of Librium and how this should be discontinued.

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Follow-up 2 weeks later

She admitted to having drinks on a few days in the last two weeks.

Naltrexone seems to be helping and she is committed to not drinking anymore and is not having cravings

Was able to abstain from drinking at a holiday party where everyone else was drinking

She is feeling better, is less unsteady on her feet and is thinking more clearly.

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Follow-up 4 weeks later

Naltrexone continues to help and she has much less interest in drinking now

Has 1-2 drinks per week now. She states they are "shooters" and she likes the taste. I have recommended she avoid all alcohol going forward.

She avoided any alcohol at events over the holidays. There is no alcohol in the house anymore and her family is supporting her in her AUD treatment.

She is continuing to be more active and is going to the senior center for exercise classes. Has more energy.

No longer taking Librium

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3 month Follow-up

- She has not had any alcohol in the last 18 days
- Is having more anxiety issues and realizes alcohol had been used in the past for emotional issues; still taking Xanax daily
- She was given re-assurance that her symptoms are not due to alcohol withdrawals; agrees that she needs to develop better coping mechanisms that could be facilitated with a long term (non-narcotic) medication.
- PHQ-9 Patient Depression Questionnaire completed. Depression Severity Score 12. Interpretation of Depression Severity - Moderate Depression, Consider Other Depressive Disorder

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Assessment & Plan:

- # Anxiety disorder (F41.9):
- # Depression (F32.9):
- # Chronic alcoholism (F10.21): in early remission
- Exercise will help with both physical and mental health.
- PRESCRIBE: escitalopram 10 mg oral tablet, take 1 tablet daily, # 30, RF: 2. (Transmitted by David Best, DO)
- PROVIDED: Patient Education (2/22/2024): She has previous Xanax Rx from her primary care physician and we discussed how limiting this medication is a longer term goal

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Case Study 2

- 62 year old male with chronic pain
- I first saw him in June 2012 after the doctor he was seeing before left the practice. He had chronic left knee pain and pain from plantar fasciitis.
- He had initially injured knee while serving in the Vietnam War. He has had surgeries to both knees. He has had injections that did not help. He did not get enough pain relief from NSAIDs and had been on stable dose of OxyContin 30mg every 8 hours.
- Also taking amitriptyline 25mg 1.5 tabs qhs

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More History

- Social History: ½ ppd smoking for 30 years; no alcohol use; self employed landscaper; enjoys woodworking
- Family History: Dad died at age 73 from CAD
- No AUD or SUD in family
- DIRE Score is 20

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DIRE Score: Patient Selection for Chronic Opioid Analgesia

For each factor, use the patient's score from 1-3 based on the explanations in the right-hand column.

SCORE	FACTOR	EXPLANATION
1	DIAGNOSIS	1.1. The patient has been treated for chronic pain for at least 3 months. 1.2. The patient has been treated for chronic pain for at least 3 months with a prescription opioid. 1.3. The patient has been treated for chronic pain for at least 3 months with a prescription opioid and has been unable to function in daily life. 1.4. The patient has been treated for chronic pain for at least 3 months with a prescription opioid and has been unable to function in daily life and has been unable to function in daily life.
2	INTACTABILITY	2.1. The patient has been treated for chronic pain for at least 3 months. 2.2. The patient has been treated for chronic pain for at least 3 months with a prescription opioid. 2.3. The patient has been treated for chronic pain for at least 3 months with a prescription opioid and has been unable to function in daily life. 2.4. The patient has been treated for chronic pain for at least 3 months with a prescription opioid and has been unable to function in daily life and has been unable to function in daily life.
3	RISK	3.1. Total of 1-3 factors is 3 or more.
4	Psychosocial	4.1. The patient has been treated for chronic pain for at least 3 months. 4.2. The patient has been treated for chronic pain for at least 3 months with a prescription opioid. 4.3. The patient has been treated for chronic pain for at least 3 months with a prescription opioid and has been unable to function in daily life. 4.4. The patient has been treated for chronic pain for at least 3 months with a prescription opioid and has been unable to function in daily life and has been unable to function in daily life.
5	Clinical History	5.1. The patient has been treated for chronic pain for at least 3 months. 5.2. The patient has been treated for chronic pain for at least 3 months with a prescription opioid. 5.3. The patient has been treated for chronic pain for at least 3 months with a prescription opioid and has been unable to function in daily life. 5.4. The patient has been treated for chronic pain for at least 3 months with a prescription opioid and has been unable to function in daily life and has been unable to function in daily life.
6	History	6.1. The patient has been treated for chronic pain for at least 3 months. 6.2. The patient has been treated for chronic pain for at least 3 months with a prescription opioid. 6.3. The patient has been treated for chronic pain for at least 3 months with a prescription opioid and has been unable to function in daily life. 6.4. The patient has been treated for chronic pain for at least 3 months with a prescription opioid and has been unable to function in daily life and has been unable to function in daily life.
7	Social Support	7.1. The patient has been treated for chronic pain for at least 3 months. 7.2. The patient has been treated for chronic pain for at least 3 months with a prescription opioid. 7.3. The patient has been treated for chronic pain for at least 3 months with a prescription opioid and has been unable to function in daily life. 7.4. The patient has been treated for chronic pain for at least 3 months with a prescription opioid and has been unable to function in daily life and has been unable to function in daily life.
8	Efficacy Score	8.1. The patient has been treated for chronic pain for at least 3 months. 8.2. The patient has been treated for chronic pain for at least 3 months with a prescription opioid. 8.3. The patient has been treated for chronic pain for at least 3 months with a prescription opioid and has been unable to function in daily life. 8.4. The patient has been treated for chronic pain for at least 3 months with a prescription opioid and has been unable to function in daily life and has been unable to function in daily life.

Total score = D + I + R + E

Score 1-3: Not a suitable candidate for long-term opioid analgesia.

Score 4-8: May be a good candidate for long-term opioid analgesia.

NOTES: A score of 1-3 indicates that the patient may not be suitable for long-term opioid pain management.

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Pain Management

- In March 2013 he had reduction in OxyContin 30mg from q8 to q12 and at that time insurance would only cover 60 per month. He had been taking 1 Percocet 10/325 daily for breakthrough pain but with dose reduction of OxyContin required increased Percocet
- Insurance stopped covering OxyContin in April 2014; tried fentanyl patch but it was not effective
- Changed to MS Contin



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More Medication management

- Tolerance build-up to MS Contin and prn oxycodone IR eventually led to patient running out early and in January 2017 diagnosis of moderate Opioid Use Disorder was made
- Patient started on buprenorphine-naloxone at one 5.7mg-1.4mg tab daily and this was increased to 1.5 tab daily at next visit
- At follow-up he said his pain was a bit worse but he was feeling better overall and was glad to be off other opioids

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Opioid Use Disorders – DSM V

The diagnosis of Opioid Use Disorder under DSM V can be applied to someone who uses opioid drugs and has at least two of the following symptoms within a 12-month period:

- Taking more opioid drugs than intended.
- Wanting or trying to control opioid drug use without success.
- Spending a lot of time obtaining, taking, or recovering from the effects of opioid drugs.
- Craving opioids.
- Failing to carry out important roles at home, work or school because of opioid use.
- Continuing to use opioids, despite use of the drug causing relationship or social problems.
- Giving up or reducing other activities because of opioid use.
- Using opioids even when it is physically unsafe.
- Knowing that opioid use is causing a physical or psychological problem, but continuing to take the drug anyway.
- Tolerance for opioids.
- Withdrawal symptoms when opioids are not taken.

SAMHSA

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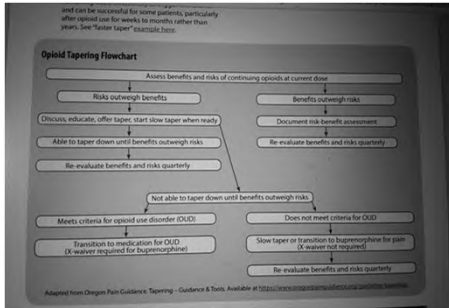
Forward to 2017-2023

- In 2017 he started having low back problems and required treatment for lumbar DDD with radiculitis that was initially managed with PT and injections but ultimately required L4-5 Fusion in May 2019.
- Buprenorphine-naloxone 8/2 dose now 1 tab daily
- Pain reasonably well controlled with PEG score of 3. Able to function well in daily activities.
- Not doing as much woodworking due to COVID-19 (no trade shows to go to).
- Serves as main caregiver for his wife
- Seen in Sept 2023: having lumbar radiculopathy and has been referred to PM&R clinic for consideration for injections

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The Serenity Prayer as a guide

- God grant me the serenity to accept the things I cannot change; courage to change the things I can; and wisdom to know the difference.

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Thank You

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