

ALCOHOL USE DISORDERS

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Alcohol Use Disorder



Alcohol Abuse:
Maladaptive pattern of
use leading to
impairment in one of
several sociobehavioral
domains for a 1 year
period

Alcohol Dependence: Maladaptive pattern of use, resulting in substantial distress or dysfunction, characterized by at least three symptoms:

 Tolerance, withdrawal, unsuccessful attempts at cutting down, preoccupation with use, recurrent use despite adverse consequences

IF NOT ABSTINENT: Low-Risk Drinking Unhealthy Drinking Alcohol Use Disorder

Healthy Drinking Limits:

- ► Healthy men < 65 y/o:
 - ▶ < 4/day and <14/week
- ▶ Healthy women and healthy men > 65 y/o:
 - ▶ <3/day and <7/week
- ▶ Abstinence for :
 - ► Pregnant
 - ▶ Medication interactions
 - ▶ Health conditions with contraindications
 - ▶ Less than 18 y/o



EPIDEMIOLOGY

ETOH:

- ▶ 2010: ETOH > 88,000 DEATHS/YEAR
- ► #3 LEADING CAUSE OF LIFE-STYLE PREVENTABLE DEATH
- ▶ 223.5 BILLION/ANNUALLY
 - ► Loss in workplace productivity, healthcare expense, criminal justice, MVA
- ► STATE COSTS APPROX. = SMOKING AND MEDICAID
- ▶ 1 IN 6 U.S. ADULTS BINGE DRINK

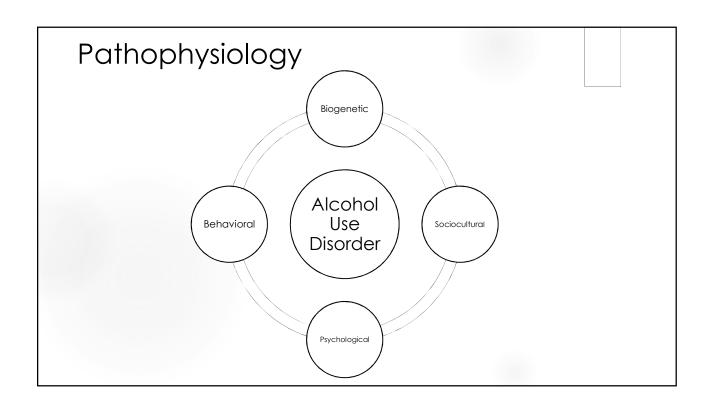
Epidemiology of Alcohol **Dependence** (CDC, Nov 2014)

Data from 2009-2011

- ▶ Men > women
- ▶ Men age 18-24
- ▶ Binge drinking most common with incomes >\$75,000
- ▶ Dependence most common with income <\$25,000
- Most excessive drinkers do not meet criteria for dependence

IMPLICATIONS FOR PRIMARY CARE:

- ► Estimated 20% of persons seen in family practice have a substance use/abuse disorder
 - ► Only ~ 9% diagnosed
- ► About 17% of men and about 8% of women will meet criteria for alcohol dependence at some point in their lives
- ▶ Teens in grades 9-12 (2011)
 - ▶ 22% had 5+ drinks one occasion/last 30 days



FACTORS

- ▶ Biogenetic:
 - ► Affect metabolism and effects on neurotransmitters, receptors, cell membranes
 - ▶ Many alcohol responsive genes involved
 - ► If parent is alcohol dependent, child more likely to develop alcohol disorder within 10 years
- ► Sociocultural:
 - ► Poverty
 - ► Cultural influences
 - ► Parental/peer values/attitudes
 - ▶ Availability



Factors (cont)

- ▶ Psychological:
 - ▶ Underlying disorders ~ "self-medicating"
 - ► Anxiety, depression, bipolar disorder
 - ▶ Trauma history
 - ▶ Gender identification
 - ▶ Thrill seeking
- ▶ Behavioral:
 - ► Emotional stress
 - ▶ Negative thoughts
 - ▶ Social interactions



CLINICAL COURSE

- ► HIGHLY VARIABLE
- ► EARLY AGE = INCREASED RISK
- ▶ PSYCHOSOCIAL PROBLEMS FIRST, PHYSICAL PROBLEMS MUCH LATER
- ► MAY BE PERIODS OF ABSTINENCE
- ▶ DETECTION IS KEY!!



COMPLICATIONS OF ETOH:

- ▶ Hypertension
- ▶ Cardiomyopathy
- ► Fatty liver
- ► Alcoholic hepatitis
- ▶ Anemia
- ► Cirrhosis
- ▶ Neuropathy
- ▶ Osteoporosis
- ▶ Impotence, loss of libido

Women and excessive ETOH

- ▶ Liver Disease: Risk > than for men
- ► Impact on the Brain: women are more vulnerable than men to the brain damaging effects of excessive alcohol use
- ▶ Impact on the Heart: Increased risk for damage to the heart muscle than men
- ► Cancer: Increased risk > mouth, throat, esophagus, liver, colon, and breast
- ► Sexual Assault: Binge drinking is a risk factor for sexual assault, especially among young women in college settings.
- ▶ Pregnancy: Increased risk of SIDS and miscarriage with ETOH in first trimester. Risk of Fetal Alcohol Syndrome (FAS)

HISTORY

- ► SCREEN EVERYONE, ESP 18 Y/O+
- ► "DO YOU SOMETIMES DRINK BEER, WINE OR LIQUOR?"
 - ▶If yes, assess further
- ▶ Identify coexisting conditions (depression/anxiety)
- ► Identify potentially harmful situations (family history, med interactions, <age 21)
- ▶ Screen for other substance use/abuse

Single Item Screening Tool:

Alcohol

- ► "How many times in the past year have you had 5 (4 in women) or more drinks in a day?"
 - ▶ Positive = any answer > 0 or difficulty identifying how often
 - ► Sensitivity 82%, Specificity 79%
 - ► EASY and QUICK

CAGE Questionnaire:

>2 = clinically significant

- ▶ 1. Have you ever felt you should cut down on your drinking?
- ▶ 2. Have people **annoyed** you by criticizing your drinking?
- ▶ 3. Have you ever felt bad or **guilty** about your drinking?
- ▶ 4. Have you ever had a drink first thing in the morning to steady your nerves or get rid of a hangover (eyeopener)?

TEENAGE Screener:

- 1. "In the past year, on how many days have you had more than a few sips of beer, wine, or any drink containing alcohol?"
- 2. "If your friends drink, how many drinks do they usually drink on one occasion?"

TEENS

- ▶ Difficult to detect
 - ▶ "Typical" adolescent behavior
 - ▶ Parents: Watch for subtle signs
 - ▶Use your nose
 - ►Watch for mood changes
 - ►Monitor the car
 - ▶Loss of interest in sports, activities, hobbies
 - ▶Decline in school performance

ERR ON THE SIDE OF CAUTION

SCREEN IS ++....NOW WHAT?

DRINKING PROFILE

- Setting
- Social network
- Consumption
- Pressures
- Perceived benefits
- Perceived negative consequences
- Other associated risky behaviors

PHYSICAL EXAMINATION

LIKELY NORMAL EXCEPT IN SEVERE DISEASE



- ► GENERAL APPEARANCE
- ► SKIN FACIAL VASCULARIZATION
- ► ABDOMEN HEPATOMEGALY, RUQ TENDERNESS
- ► MALE GYNECOMASTIA, HAIR LOSS, TESTICULAR ATROPHY
- ► CARDIOVASCULAR, PULMONARY, NEURO EXAMS

DIAGNOSTIC TESTING:

NOT DIAGNOSTICOFFERS CLUES

► MCV: mild macrocytosis (>100 fL)

► AST > ALT: usually 1-2X

STEPS TO TAKE:

- 1. ASK
- 2. ADVISE
- 3. ASSESS
- 4. ASSIST
- 5. ARRANGE

Source: U.S. Preventive Services Task Force

Ask/Assess
Advise
Assess/Agree
Assist
Arrange

MANAGEMENT IN PRIMARY CARE

- ▶ PREVENTING MORBIDITY:
 - ▶ PNEUMOCOCCAL VACCINE
 - ► MVI w/folate + Thiamine 100mg/day
 - ► SAFETY
 - ► SURVEILLANCE FOR ASSOCIATED MEDICAL CONDITIONS

RISKY DRINKING/ALCOHOL USE DISORDER MANAGEMENT

- ► TREAT OR REFER FOR PSYCHIATRIC CO-MORBIDITIES
- ▶ IF MULTI-SUBSTANCE USE, REFER TO SPECIALTY CARE
- ► COMMUNITY RESOURCES: SELF/MUTUAL HELP GROUPS
- **▶** BRIEF INTERVENTION
 - ► Assess, Advise, Agree, Assist, Arrange



ALCOHOL DEPENDENCE MANAGEMENT

~DO THEY NEED DETOXIFICATION???~

- > history of severe withdrawal
- > medical co-morbidities
- > 18+ drinks/day

Dependence usually requires psychotherapy + pharmacotherapy

Pharmacotherapy

- ▶ Disulfiram (Antabuse)
 - aversion therapy
 - ▶ Palpitations, flushing, shortness of breath, diaphoresis, N/V, headache
 - ▶ High relapse rate
- ▶ Naltrexone (ReVia...)
 - ▶ Opioid agonist
 - ▶ 3-6 months
 - ▶ Hepatotoxicity risk black box warning
 - ▶ 50mg one po QD X 12 weeks
 - ▶ Use: prevent relapse to heavy drinking

More Meds.....

- ► Acamprosate (Campral)
 - ▶ Works better to maintain abstinence than Naltrexone
 - ▶ Start asap after withdrawal, continue even if relapse
 - ▶ 666 mg po tid
- **▶** OFF-LABEL
 - ▶ Topiramate (Topamax)
 - ▶ Varenicline (Chantix)
 - ▶ Baclofen

Psychosocial therapy

ANY therapy is better than NO therapy

- ▶ individual or group
- ► CBT, psychotherapy....



▶ Need to address maladaptive processes/behaviors

Follow-up

- ► AT RISK DRINKING:
 - ▶ 3-6 MONTHS DEPENDING ON SEVERITY
 - ▶ Labs?
- ► Alcohol Use Disorder:
 - ▶ Supportive

PATIENT RESOURCES:

- ▶ National Directory of Drug and Alcohol Treatment Programs
 - **▶** 1-877-726-4727
- ► Mutual Help Groups
 - ► Alcoholics Anonymous <u>www.aa.org</u>
 - ► Al-Anon <u>www.al-anon.org</u>
 - ► Alateen <u>www.alateen.org</u>
 - ► Celebrate Recovery

