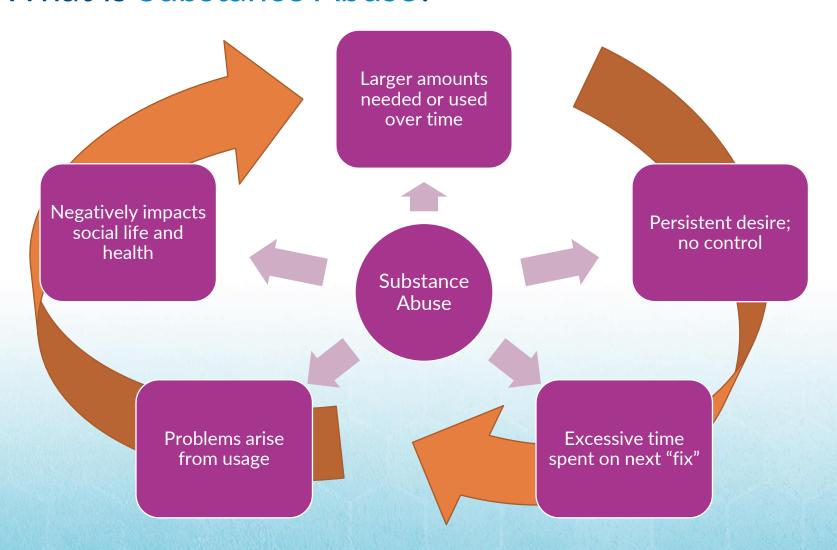
Addiction

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What is Substance Abuse?



Addiction is Not Just Drugs, Alcohol and Tobacco

It also includes gaming, gambling, internet, shopping, eating, sex, etc.



Signs of Alcohol Addiction

Are You...

- Often drunk, hungover, ill, have full/empty containers around you
- Drinking more to get high (tolerant)
- Stealing to get alcohol
- Lying about your habits

Do You...

- Have problems at work or school (i.e., late, absent, poor performance)
- Spend lots of money on alcohol
- Think about/ensure you have your next dose/supply ready
- Get defensive when asked about your intake

Have You...

- Lost energy/motivation
- Neglected your appearance
- Performed risky behaviors while intoxicated
- Been unable to stop
- Had withdrawal symptoms

Ongoing Use

More tolerance equals:

- using higher doses
- dosing more frequently
- changing method of drug intake

Addiction can:

- lead to foregoing food and sleep in order to binge
- cause changes in judgement, impulsivity, aggression, paranoia
- make you delusional and hallucinate
- cause dishonesty, denial, rationalization, guilt and shame, loss of control, a hijacked brain



Risk Factors for Addiction



Addiction Statistics

#1	Drug overdose is the #1 cause of injury-related death in the US (44k+ deaths/year)	
114	People die every day due to drugs (nearly 7,000 will go to the hospital or Emergency Room)	
90%	Of people who need drug rehab do not receive it	
30%	Success rate for those who complete rehab program (70-80% drop out in 3-6 months)	

Full recovery is challenging but possible. The leading cause for relapse is failure to follow the prescribed plan after discharge.

Why Can't You Just Stop?

Because:

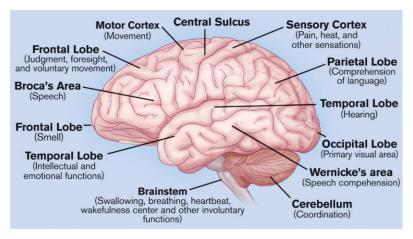
- Brain parts that reflect, assess, plan and listen to feedback are the most damaged by addiction.
- Drug use impairs the brain parts that create solutions, so just quitting is very difficult to do.
- Addiction is a disease.



Addiction is not a disease of willpower. It is a disease of instinct. It lives in the part of the brain that tells you to breathe.

Why Can't Addicts Stop Using?

Because DRUGS WORK! Addiction changes the brain circuits, so treatment is essential.



Neurotransmitter	Functions Affected	Drugs that Affect It
Dopamine	Pleasure and reward, movement, attention, memory	Cocaine, methamphetamine, amphetamine (all drugs directly or indirectly augement dopamine)
Serotonin	Mood, sleep, sexual desire, appetite	MDMA (ecstasy), LSD, cocaine
Norepinephrine	Sensory processing, movement, sleep, mood, memory, anxiety	Cocaine, methamphetamine, amphetamine
Opioids (Endorphin and Enphalin)	Analgesia, sedation, rate of bodily functions (e.g., breathing), mood	Heroin, morphine, prescription pain relievers (e.g., oxycodone)
Acetylcholine	Memory, arousal, attention, mood	Nicotine
Cannabinoids (anandmide)	Movement, cognition and memory	Marijuana
Glutamate	Increased rate of neuron activity, learning, cognition, memory	Ketamine, alcohol
GABA (gamma-aminobutyric acid)	Slowed rate of neuron activity, anxiety, memory, anesthesia	Sedatives, tranquilizers, alcohol

The Brain and Addiction

Brain Reward Center

What do the colors mean?

RED

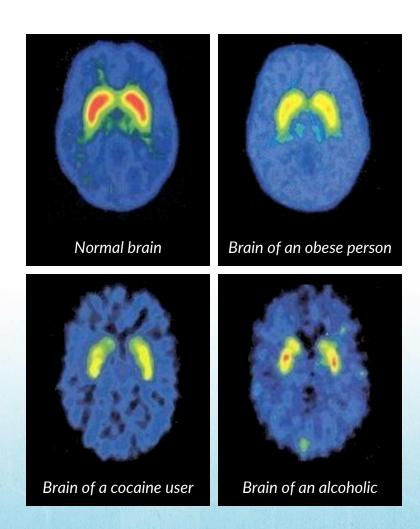
- High dopamine
- Normal pleasure and interest

YELLOW

- Medium dopamine
- Difficulty feeling joy or pleasure

GREEN

- Low dopamine
- Lack of pleasure



Understanding Dopamine

Healthy brains identify/reinforce beneficial behaviors by feeling pleasure

Brains are wired to want to repeat pleasurable activities. Dopamine is key to this.

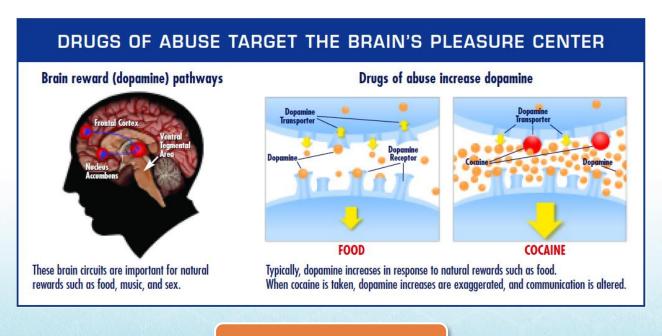
Dopamine tells the brain to remember healthy, pleasurable experiences. This relay changes neural connectivity to make it easier to repeat the activity (forming habits).

Drugs create intense euphoria and larger surges of dopamine. This reinforces connection between taking the drug, feeling pleasure, and having an experience.

Large surges of dopamine "teach" the brain to seek drugs at the expense of other healthier goals and activities.

Understanding Dopamine

Stimulants boost normal brain levels of dopamine to create feelings of pleasure and increase energy



Play Video

Addiction Causes Incentive Salience

Incentive salience is motivation created in the brain which connects a certain stimuli (drug/alcohol/food) to reward (pleasure/relief)

- Incentive salience is greater than merely liking something
- Neutral stimuli are assigned incentive salience to create cravings like:
 - Smelling cigarette smoke triggers a craving for nicotine
 - Seeing drug paraphernalia can trigger a drug craving
 - Driving in or near a neighborhood where drugs were purchased can trigger a craving
- These secondary reinforcers make you crave/potentially use a drug again

Recap: Long-Term Drug Exposure Impairs Brain Functioning

Drugs release 2 to 10 times more dopamine than natural rewards (i.e., eating, sex, social activities)

This release/reward strongly motivates you to take drugs again and again

The brain then adjusts to produce less dopamine and reduces number of receptors that can receive signals

Short Term and Long Term Effects: Marijuana and Cocaine

MARIJUANA

Sleepiness

[Impaired memory

Increased heart rate

Dry mouth

Decreased inhibitions

Paranoia

Mallucinations

Difficulty keeping track of time

Impaired concentration and coordination

COCAINE

Mallucination:

Reduced pain perception

Paranoia or erratic

If injected, can cause vein collapse

Increased heart rate, blood pressure, breathing rate, and body temperature

Overstimulation of the nervous system, causing a seizure, brain hemorrhage, stroke, or heart attack

MARIJUANA

Lung, throat, mouth, and tongue cancer

Schizophrenia

Asthma, chronic bronchitis

Decreased testosterone levels for men

Increased testosterone levels for women

Increased risk of infertility/Difficulty having children

Decreased sexual pleasure

COCAINE

Hepatitis or AIDS when sharing needles

Heart attacks, strokes, or respiratory failure

Brain seizures

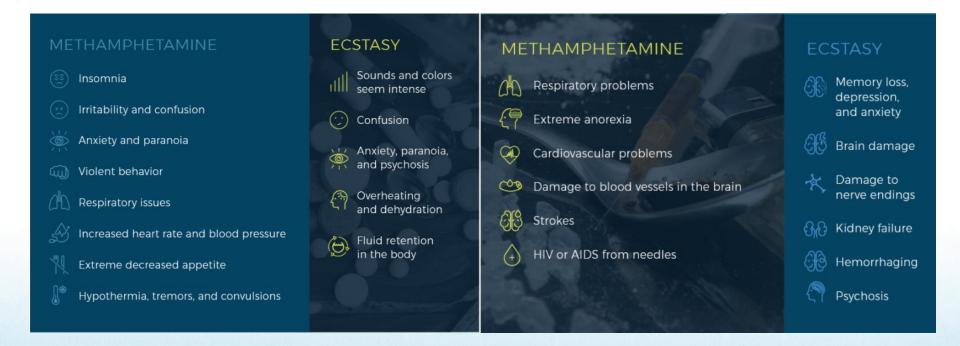
Weakened ability to

[Losing touch with reality

Miscarriages when pregnant

Damage to nasal passage and nose when snorted

Short Term and Long Term Effects: Methamphetamine and Ecstasy



Does Addiction Cause Mental Illness?

WHO IS AFFECTED?

Adults have co-occuring mental and substance use disorders. This doesn't mean that one caused the other and it can be difficult to determine which came first.

Of the 20.3 million adults with substance use disorders,

37.9%

also had mental illnesses.











Among the 42.1 million adults with mental illness,

18.2%

also had substance use disorders.









Source: Han, et al. Prevalence, Treatment, and Unmet Treatment Needs of US Adults with Mental Health and Substance Use Disorders, 2017.

It doesn't help!

Addiction and mental illness. often co-exist

Mental illness may precede addiction

Or, addiction may trigger/worsen mental disorders

Addiction: It Can Look Like Anything

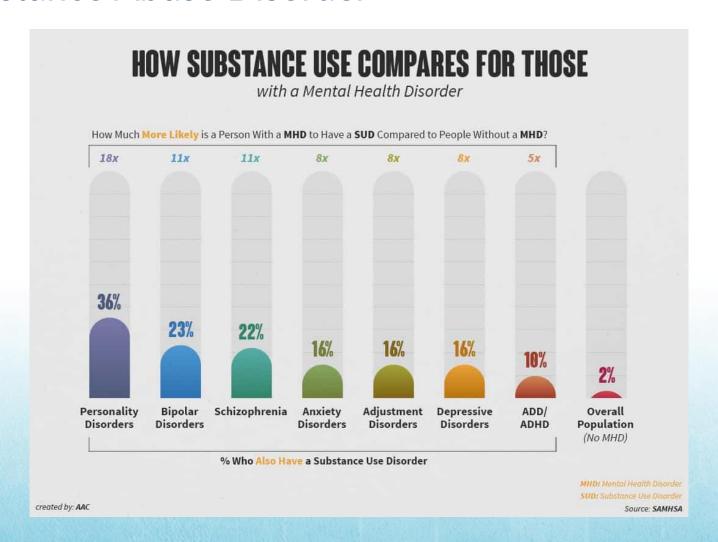
Mood Disorders Anxiety Disorders

Personality Disorders

Psychotic Disorders

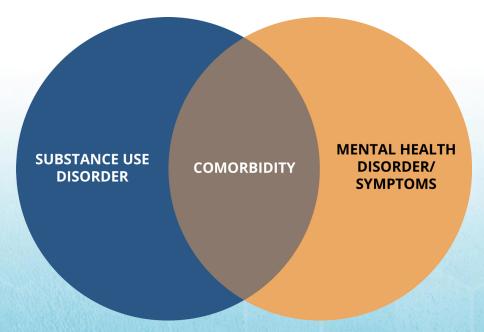
Organic and Neurological Disorders

Comparison of Mental Health Disorder with Substance Abuse Disorder



Why is there Comorbity?

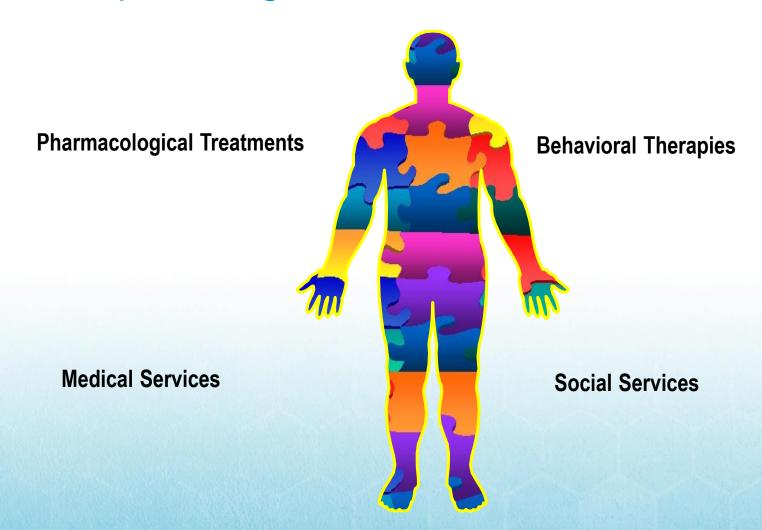
- Comorbity means two conditions often co-exist (e.g., a mental health disorder and a substance use disorder)
- Substance abuse increases vulnerability to mental illness and vice versa
- Risk factors that give rise to mental illness and substance abuse may overlap
- Substance abuse is a way to self-medicate away from feelings (pain, trauma, etc.)



The Cycle of Addiction



How do we Break the Cycle? Start by Treating the Whole Person



Treatment Options

Inpatient Rehab

• Structured addiction programs that require patients to live in a drugfree facility for around-the-clock medical care and therapeutic support

Outpatient Rehab

• Similar to inpatient rehab, but patients live at home and have greater risk for triggers and relapse

Talk Therapy

Psychiatrists, psychologists, licensed social workers and counselors

Support Groups

• 12-Step, Alcohol or Narcotics Anonymous, etc.

Treatment Can Work, But....

No single treatment is right for everyone

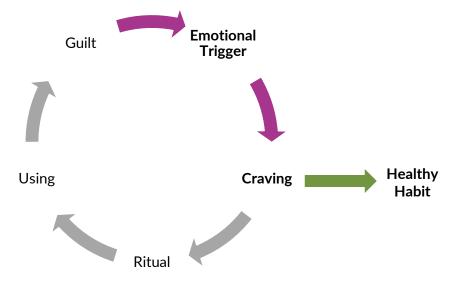
It needs to be readily available

It must address multiple needs of the individual, not just drug use

Multiple courses of treatment may be required for success

A person must stay with it long enough for it to be effective

Recovery Requirements



Do:

- Use treatment professionals
- Actively use available resources and recovery supports
- Respect personal autonomy; meet the person where he/she is emotionally and intellectually, not where you are
- Listen to relapse concerns/reasons, but hold person accountable for their actions

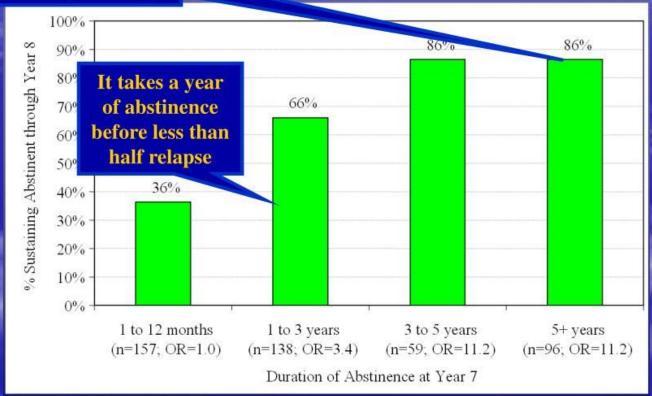
Know:

- If comorbid disorders exist (depression, anxiety, trauma)
- Addiction is a chronic health condition
- How difficult recovery is; if one coping skill is taken away, another solution must be in place



Extended Abstinence is Predictive of Sustained Recovery

After 5 years – if you are sober, you probably will stay that way.



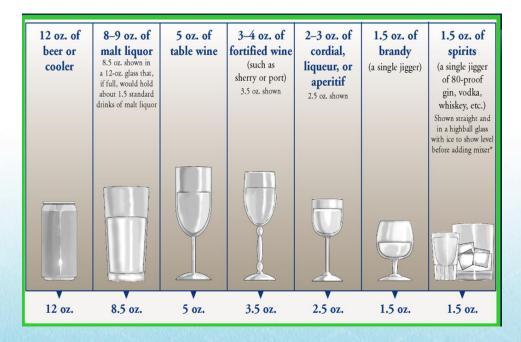
Dennis et al. Eval Rev. 2007

Are there any Safe Limits to Use?

YES



Alcohol: two a day (over age 65, one a day)



NO



All Tobacco products



Illicit Drugs



Prescription Drug misuse/abuse

In Conclusion

Addiction is:

- ► A treatable, chronic medical disease
- Compulsive and often continues despite harmful consequences
- Possible to overcome, with treatments as successful as those for other chronic diseases

National Resources

National Alliance on Mentally Illness (NAMI)

National and local resources, https://www.nami.org/Home

National Suicide Prevention Lifeline

1-800-273-8255, https://suicidepreventionlifeline.org/

Substance Abuse and Mental Health Services Administration (SAMHSA)

https://www.samhsa.gov/find-help/national-helpline

National Institute of Mental Health (NIMH)

https://www.nimh.nih.gov/health/find-help/index.shtml

Mental Health America (MHA)

https://www.mhanational.org/

United Way

Community Resources

Lewisville ISD Resources

บก่บ้าำ

Help, when you need it most

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EMPLOYEE ASSISTANCE PROGRAM (EAP)

Your EAP is designed to help you lead a happier and more productive life at home and at work. Call for confidential access to a Licensed Professional Counselor* who can help you.

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- · Relationship issues, divorce
- Anger, grief and loss

lob stress, work conflicts

Family and parenting

problems

· And more

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- management, credit report issues
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*The counselors must abide by federal regulations regarding duty to warn of harm to self or others. In these instances, the consultant may be mandated to report a situation to the appropriate authority. Unum's Employee Assistance Program and Work/Life Balance services, provided by HealthAdvocate, are available with select Unum insurance offerings. Terms and availability of service are subject to change. Service provider does not provide legal advice; please consult your attorney for guidance. Services are not valid after coverage terminates. Please contact your Unum representative for details. Insurance products are underwritten by the subsidiaries of Unum Group. © 2020 Unum Group. All rights reserved. Unum is a registered trademark and marketing brand of Unum Group and its insuring subsidiaries.

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American Psychological Association

https://www.apa.org/