

www.gasubstanceabuse.org

The Science of

Addiction



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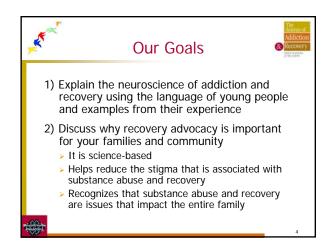
www.facesandvoicesofrecovery.org



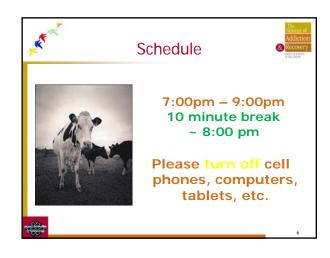
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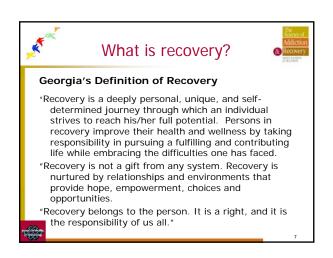












The Science of Addiction

and Recovery Why do we have hope?

- Abuse of alcohol and other drugs is preventable behavior
- Alcohol and drug addiction are a health condition from which people recover
- Recovery from addiction is a reality and happens every day



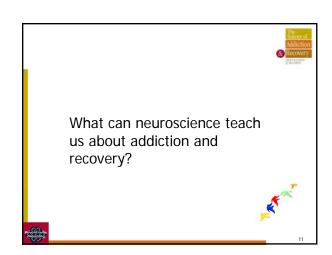
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> Why the science of addiction and recovery is important

For the Family:

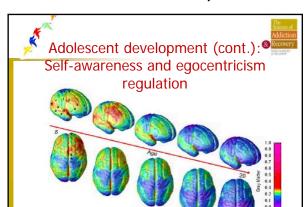
- helps explain behavior that often seems unexplainable
- reduces stigma, blame and anger for the family and the person with addiction

Why the science of addiction and recovery is important (cont.) What is **stigma**? a mark of disgrace associated with a particular circumstance, quality, or person break the stigm:



The brain's complexity • Responsible for initiating and controlling every: • sensations (sight, hearing, touch, smell, taste & internal organs) movement/behaviors emotions (feelings) • thoughts (cognition and thinking about our thoughts/feelings) • Controls everything that makes up our experience! Some of the most important changes in the brain occur between the ages of 10-25





Blue = fully mature

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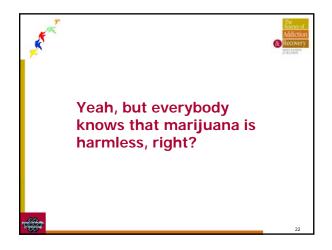


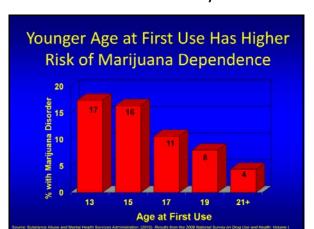
Video: The chemistry of addiction: https://www.youtube.com/watch?v=ukFjH9odsXw



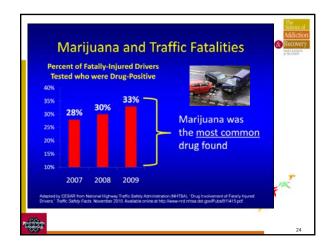


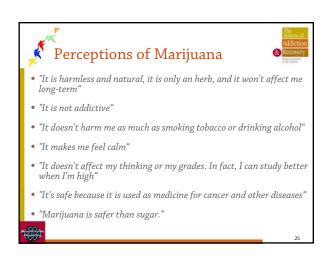


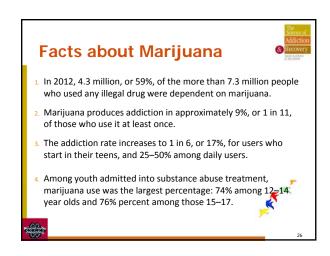


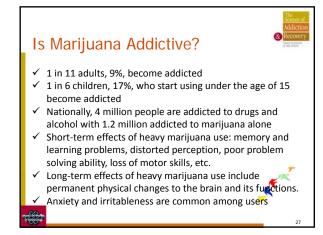


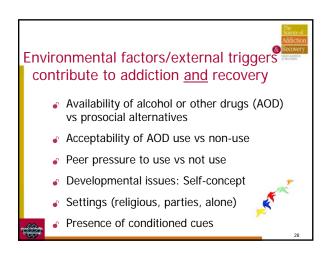
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Understanding people's behavior while addicted



Key Concept:

- The parts of the brain that become changed by addiction override factual memory storage by the hippocampus, impair or prevent the development of connections to the prefrontal cortex needed for logical reasoning, and result in reflexive, emotion-based (immature) behavior
- Thus, behaviors (e.g., forgetfulness, relapses, etc.) that "fly" in the face of logic can now be explained

