

Montana 4-H Congress Friday 7/15/22

Treat Your Brain Like the Incredible Asset It Is!

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Welcome!

Let's start with some trivia

 For each statement, decide whether it is TRUE/FACT or FALSE/MYTH and use your thumb sign to show your answer









The brain of a typical **18-year-old** processes information the same way as the brain of a typical **40-year-old** when it comes to **decision-making**





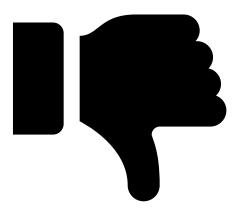
Among high school students in Montana in 2021, almost 1 in 4 were offered, sold or given an illegal drug on school property.







Only certain types of people develop an addiction.







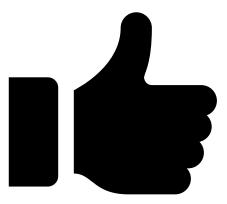
Anyone can develop an addiction.







Someone who starts taking an addictive drug at the age of 16 is more likely to become addicted than someone who starts taking it at the age of 21.





 Among high school students in Montana in 2021, almost *half* said that at some point in their lives they had taken a prescription pain medication without a doctor's prescription, or differently than how a doct to use it.





 Participation in structured extracurricular activities reduces risk of experiencing a substance use problem.





The *teen brain* is **more sensitive** to rewards and enjoyable experiences than the *adult brain*.





Having a **family history** of drug addiction increases an individual's risk of experiencing drug use problems.





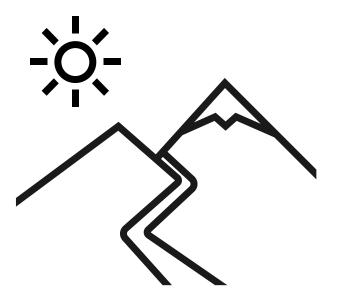


 Regularly practicing several different Coping strategies reduces a person's risk of experiencing drug addiction





Workshop Roadmap

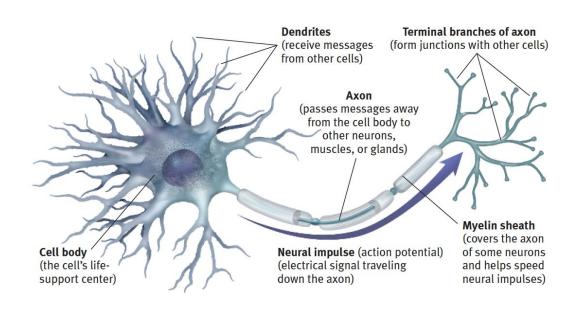


- The Teenage Brain
- Science of Addiction
- Rx Opioid & Rx Stimulant Misuse
- Discussion: Reasons for Use and Healthy Alternatives
- Tell Us Your Thoughts!



The Teen Brain

Anatomy of a Neuron (Brain Cell)



Myers, D., & Dewall, C. N. (2015). *Psychology* (11th ed.). Worth Publishers: New York.

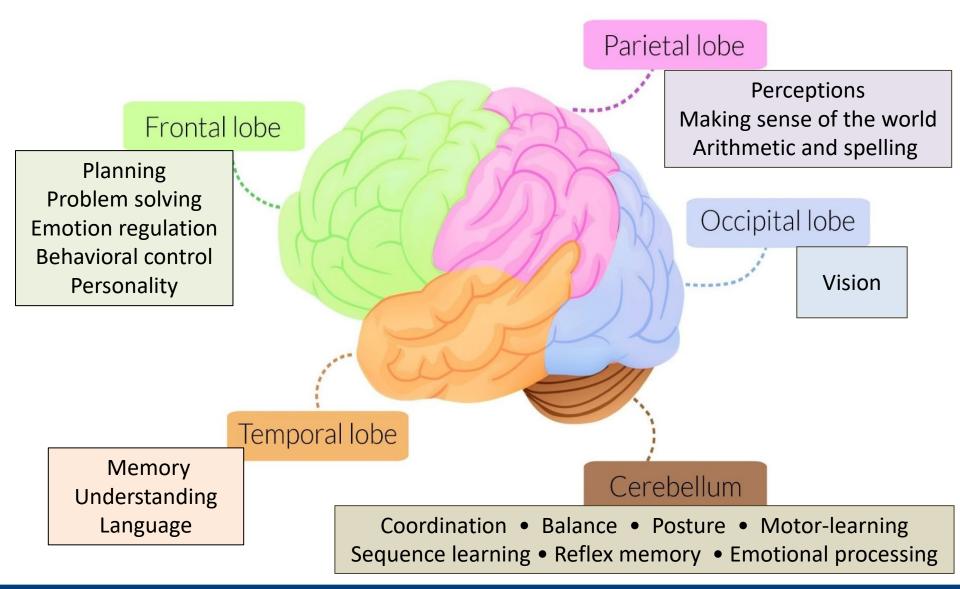
- Massive increase in connections between neurons, followed by selective pruning based on experience
- Increased speed of signaling between neurons







Changes to Brain Regions







How Brain Changes Affect Your Thoughts, Feelings and Actions

Sensitive to social environment

Creativity and imagination

Strong emotions, can shift quickly

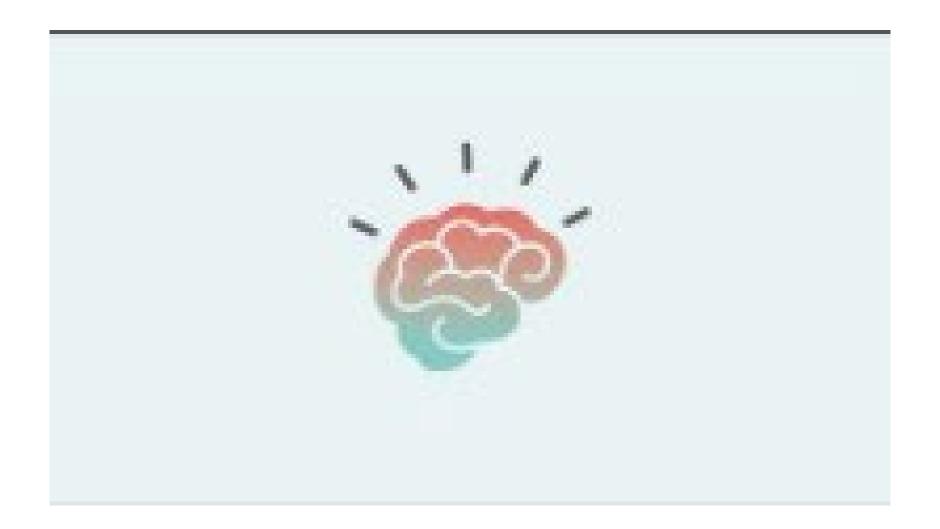
Reliance on intuition/gut feelings

Primed for learning

Curiosity, drive for excitement and novelty



Addiction and the Brain





Risk and Protective Factors

Risk Factors

Increase the chances of experiencing substance use problems

Examples:

- Developmental vulnerability
- Drugs are widely available at home or in the neighborhood
- Lack of adult supervision
- Family history of substance use problems
- Mental health challenges (such as depression or anxiety)

Protective Factors

Reduce risk; act as a shield against risk factors

Examples:

- Anti-drug use policies at school
- Participation in structured extracurricular activities
- Practicing multiple coping strategies (exercise, humor, breathing, music, etc.)
- Having at least one caring, supportive adult mentor

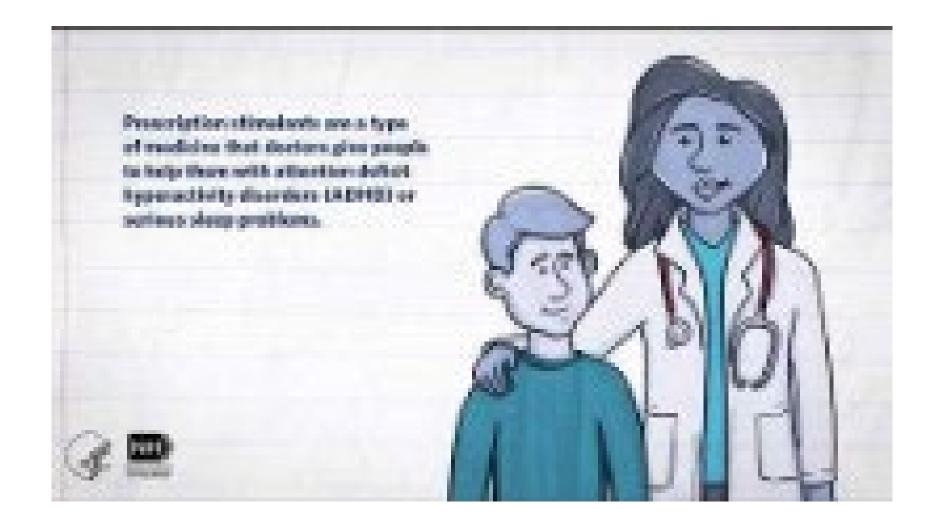


Mind Matters: Opioids





Mind Matters: Prescription Stimulants





Discussion: Reasons for Misuse and Healthy Alternatives

Identify:

Working in your groups, think of reasons MT teens might misuse Rx medications and write each reason on its own sticky note.

Categorize:

Classify each reason into one of the four categories, then send one group member to place the sticky notes on the posters.

Consider Alternatives:

For each of the four specific reasons selected by the facilitator, identify a healthy way to accomplish that goal or get that need met.

Explore Barriers and Possible Solutions:

Finally, for each of the four alternatives you identified, think of potential barriers that would make it hard to take this action.

What are some ways to eliminate or reduce these barriers?



Thank You For Attending Today

Before you go...

We Want Your Input!

