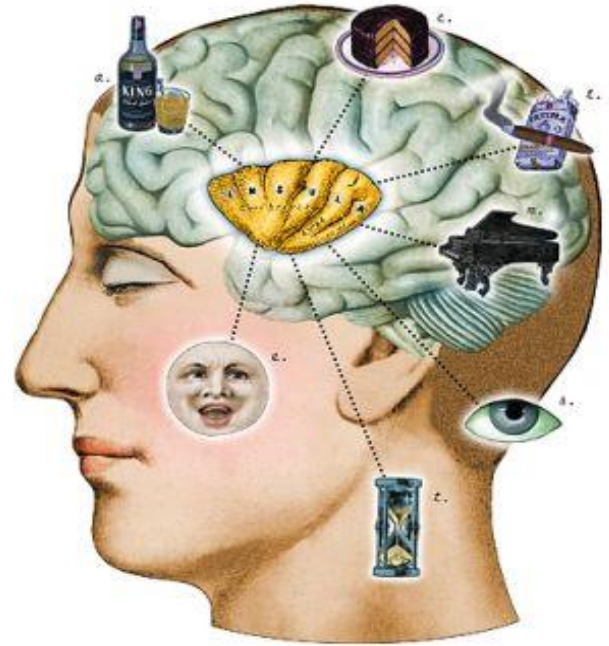
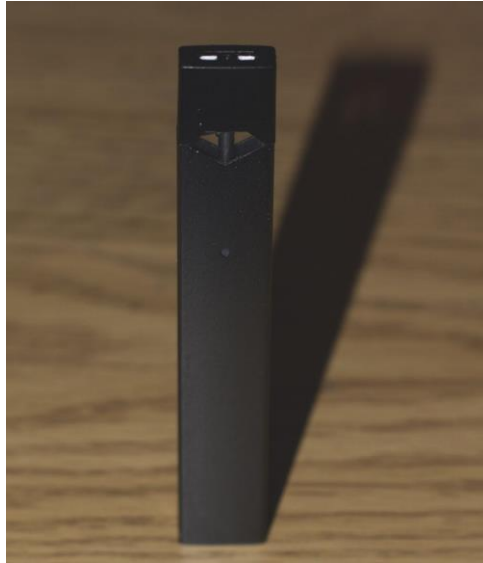
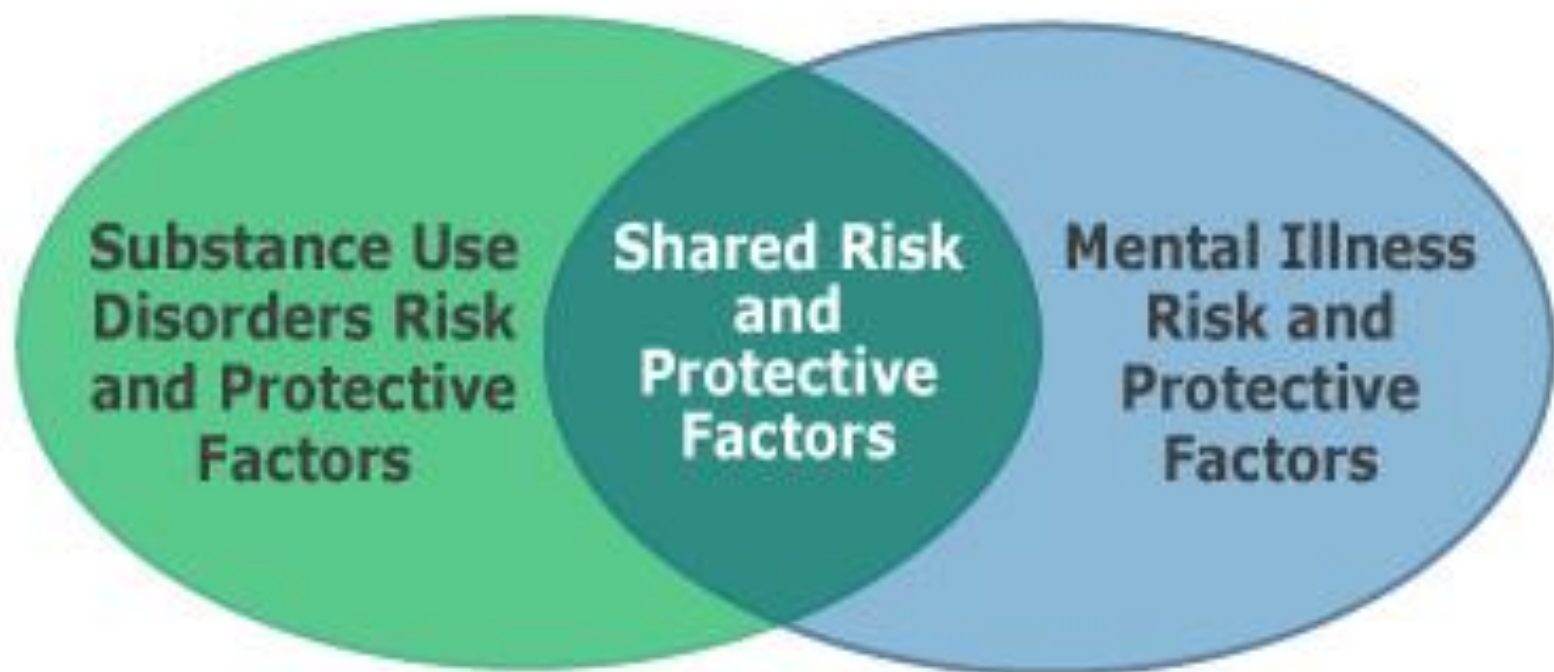


Risk & Protective Factors & Marijuana use



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RISK FACTORS

Risk factors increase the likelihood young people will develop health and social problems.

DOMAIN

PROTECTIVE FACTORS

Protective factors help buffer young people with high levels of risk factors from developing health and social problems.

- Low community attachment
- Community disorganisation
- Community transitions and mobility
- Personal transitions and mobility
- Laws and norms favourable to drug use
 - Perceived availability of drugs
 - Economic disadvantage (not measured in youth survey)



- Opportunities for prosocial involvement in the community
 - Recognition of prosocial involvement
 - Exposure to evidence-based programs and strategies (some are measured in youth survey)

- Poor family management and discipline
 - Family conflict
- A family history of antisocial behaviour
- Favourable parental attitudes to the problem behaviour



- Attachment and bonding to family
- Opportunities for prosocial involvement in the family
 - Recognition of prosocial involvement

COMMUNITY-LEVEL FACTORS

Risk Factor	Protective Factor	Outcome(s)	Study Population	Design	Citation
Neighborhood					
Neighborhood residential instability		Development of marijuana use disorder during adolescence	Male children of fathers with drunk-driving records and alcoholism	L	Buu et al., 2009
High levels of neighborhood disadvantage (effect decreases through middle school years)		Marijuana use and problems	African-American urban middle school students	L	Reboussin, Hubbard, & Jalongo, 2007
Living in a neighborhood with a high unemployment rate		Marijuana use initiation	Adolescents	L	Tucker et al., 2013
Neighborhood drug availability		Marijuana use disorder	Boys	L	Tarter et al., 2006
Exposure to community violence		Marijuana use	Adolescents in Chicago, IL	L	Wright, Fagan, & Pinchevsky, 2013
Cumulative exposure to violence					
Exposure to violence		Marijuana initiation	Adolescents	L	Richardson et al., 2013

COMMUNITY LEVEL

Risk Factor	Protective Factor	Outcome
NEIGHBORHOOD		
Neighborhoods with an increasing presence of abandoned structures over time		Marijuana use
Availability of marijuana and/or opportunities to use		Tobacco, alcohol, and marijuana use
Community norms favorable to substance use		Frequency of alcohol, cigarette, and marijuana use in the past month and binge drinking in the past 2 weeks
Community law enforcement permissive of substance use		Frequency of alcohol, cigarette, and marijuana use in the past month and binge drinking in the past 2 weeks
Poor neighborhood safety as indicated by the presence of crime and drug sales		Marijuana use

Risk Factor	Protective Factor	Outcome
Neighborhood poverty		Lifetime marijuana use and marijuana 30-day use
Residential mobility		Lifetime marijuana use
	Neighborhood cohesion and intergenerational networks (rural)	Marijuana use behavior
High rates of crime and marijuana using adults (rural)		Marijuana use behavior
Experiencing a natural disaster, e.g., hurricane		Excessive use marijuana
High residential instability (metropolitan areas)		Steep increase (rate of change) in marijuana use

AREAS OF THE BRAIN AFFECTED BY CANNABINOIDS

CEREBRAL CORTEX

PLAYS A ROLE IN
MEMORY, THINKING,
PERCEPTUAL AWARENESS
AND CONSCIOUSNESS

HYPOTHALAMUS

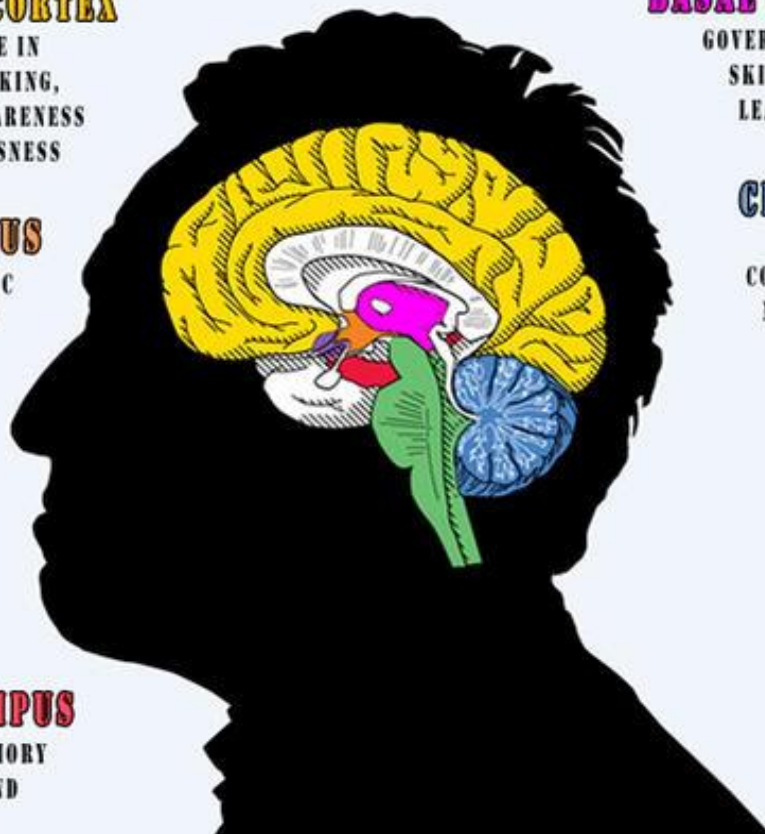
GOVERNS METABOLIC
PROCESSES SUCH
AS APETITE

AMYGDALA

PLAYS A ROLE
IN EMOTIONS

HIPPOCAMPUS

IS KEY TO MEMORY
STORAGE AND
RECALL



BASAL GANGLIA

GOVERNS MOTOR
SKILLS AND
LEARNING

CEREBELLUM

GOVERNS
COORDINATION AND
MUSCLE CONTROL

BRAIN STEM

CONTROLS MANY
BASIC FUNCTIONS
INCLUDING AROUSING,
THE VOMITING REFLEX,
BLOOD PRESSURE
AND HEART RATE

ALSO PLAYS A ROLE
IN PAIN SENSATION,
MUSCLE TONE
AND MOVEMENT

4 Risk Factors for Substance Use



1. **Availability**
2. **Parental Approval**
3. **Parental Supervision**
4. **Perceived risk of harm**

Know this about Cannabis

PARTNER TOOLKIT



*Washington State: Dept of Health:
https://www.theathenaforum.org/sites/default/files/public/documents/knowthisaboutcannabis_partnertoolkit_0.pdf*

Washington State (2017):

Programs & Practices for Youth Marijuana Use Prevention

- **Risk and Protective Factors Identified for Youth Marijuana Use Prevention Program Search**
- Individual/peer **favorable attitudes** toward drug use
- Individual/peer **perceived risks** for drug use
- Individual/peer **intentions** to use drugs
- Peer **use** of drugs
- **Parental favorable attitudes** toward drug use
- **Family management**