

Marijuana myths

- Marijuana is 'just' an herb
- Marijuana use is harmless
- Marijuana use has no 'legitimate' medical benefits
- Marijuana is not 'really' addictive
- Marijuana risks are evenly distributed

Myth 1: Marijuana is 'just' an herb • Cannabis sativa

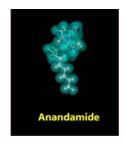
- •
- Forms
 - Marijuana (0.5-5%)
 - Sinsemilla (7.5-20%)
 - Hashish (2-8%)
 - Hash oil/wax (30-90%)





30-80 cannabinoids





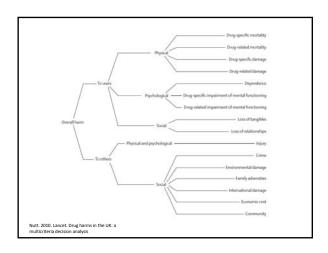
Devane; Mechoulam. 1992. Science. Isolation and structure of a brain constituenthat binds to the cannabinoid receptor

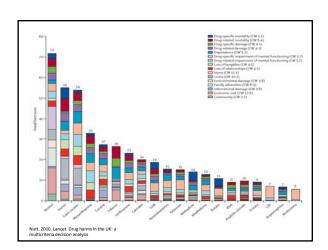
Myth 2: Marijuana use is harmless

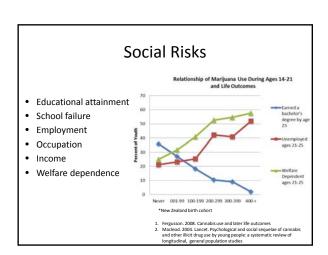
- Proposition 19: Section 2— Findings, intent and purposes
 - A.5. "Cannabis is not physically addictive, does not have long term toxic effects on the body..."











Myth 3: Marijuana use has no 'legitimate' medical benefits

- FDA/DEA: Schedule I
 - A. The drug or other substance has a **high potential for abuse**.
 - B. The drug or other substance has no currently accepted medical **use** in treatment in the United States.
 - C. There is a lack of accepted safety for use of the drug or other substance under medical supervision.

Safety and efficacy demonstrated in some conditions

- Nausea
- Emesis
- Appetite
- Cachexia
- Pain
- pressure • Inflammation

Intraocular

- *HIV Associated Neuropathic Pain Spasticity Seizures
 - *Chemotherapy associated toxicity
 - *Multiple Sclerosis Spasticity
 - *Chronic Neuropathic Pain
- Neutral Totals Type of Study TOTALS 32 31.68% 32.67% 101

Consensus Statements

- ✓ Purified THC does not replicate whole marijuana
 ✓ Safety and efficacy in some conditions
- ✓ Physician & patient protections
- ✓ Call for well-controlled research✓ Call for re-scheduling
- Smoking is not a safe delivery system
 Medications should be subject to
- approval process of FDA
- If prescribed, physicians must adhere to:
 - Good faith history & physical, treatment planning, informed consent, monitoring, and documentation
 Adequate training, and consultation as necessary

- AMA. 2009. House of Delegates Report
 APA. 2013. Position statement on Marijuana as Medicine
 ASAM. 2010. Public policy statement on Medical Marijuana
 CSAM. 2010. Position statement on Medical Marijuana
 CSAM. 2010. Position statement on Medical Marijuana
 AAAP. 2002. Medical Use of Marijuana

Myth 4: Marijuana is not 'really' addictive

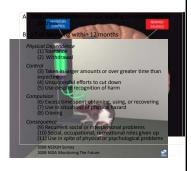
"Cannabis is not physically addictive..."

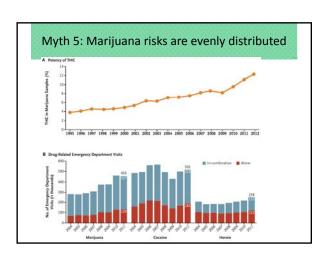
*Proposition 19: Section 2—Findings, intent and purposes

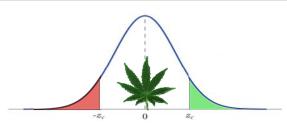


Evidence for Cannabis Use Disorder

- 1. Neurobiology
- 2. Pre-Clinical
- 3. Clinical
- 4. Epidemiology







- SPMI
- Pregnancy
- Low SES
- Youth

- Chemo N/V
- HIV Anorexia
- Neuropathy
- Spasticity/Sz

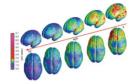
Cannabis and the developing brain

Functional

- Problem solving
- Cognitive efficiency
- Loss aversion
- Executive function Attention
- Processing speed
- Verbal & Nonverbal Memory

Physiological

- Gray matter volume and density
- White matter volume and density
- Fronto-parietal white matter volumes
- Hippocampal volumes
- Amygdala reactivity



Jacobus. Tapert. 2000. Functional Consequences of Marijuana Use in Adolescents

Summary

- \checkmark Distinct categories of MJ use

 - Recreational & Self-Medication vs:
 Use under therapeutic oversight of licensed physician
- ✓ Certain populations are at elevated risk for MJ related harms
 - Youth; SPMI; Low SES: SUD
- ✓ Cannabis use disorder is defined by the presence of functional or behavioral problems
 - It is possible to have some negative effects without having disorder
- √ Treatment works
 - Monitoring
 - Evidence Based

Supplemental References - Bostwick JM. Blurred boundaries: the therapeutics and politics of medical mairjuans. Major Clin Proc. 2012. - Danovich I, Gorelok D. State of the Art Treatments for Cannabis Dependence. Psychiatr Clin North Am. 2012 - Mechoulam R, et al. Early Pytocannabinoid chemistry to endocannabinoids and beyond. Nature Reviews. 2014 - Roger Roffan (distor). Cannabis Dependence: Its Nature, Consequences and Treatment (international Research Monographs in the Addictions), 2010 - Vollow MD, Baler RD, et al. N Engl J Med. Adverse health effects of marijuana use. 2014 - http://www.csam-asam.org/