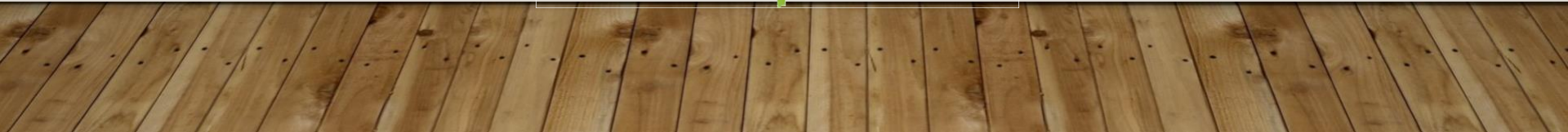
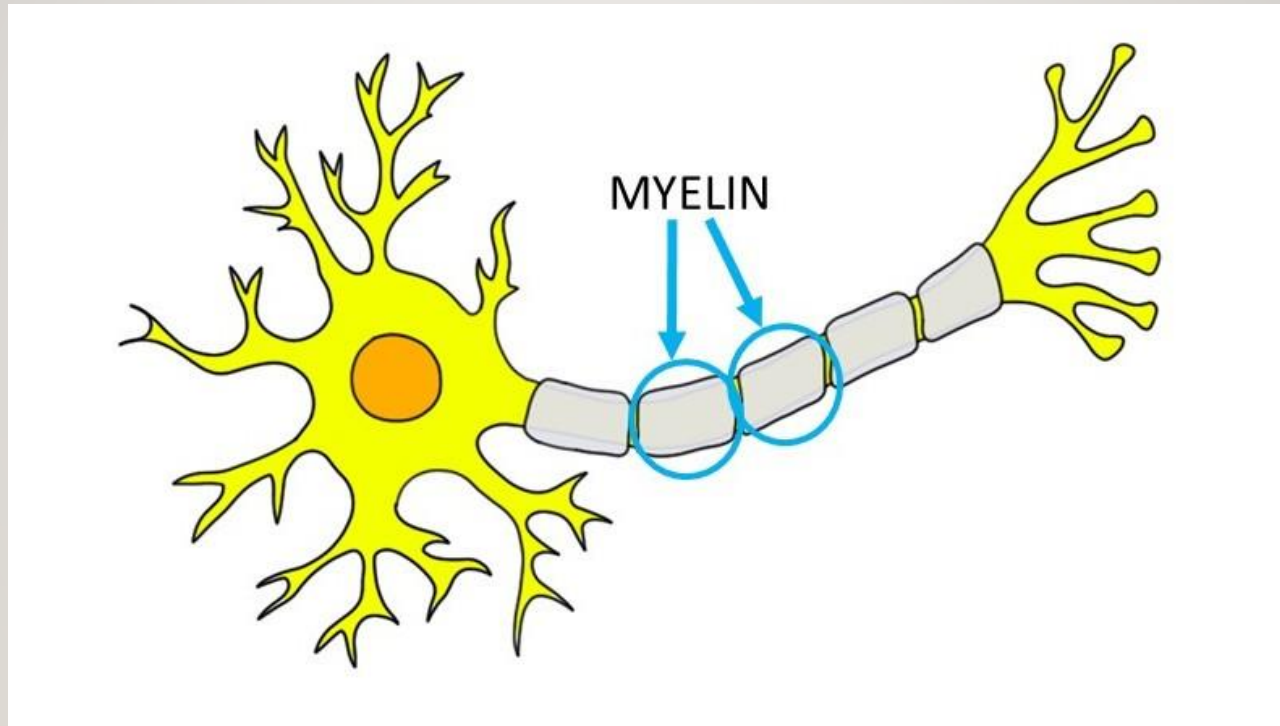


MARIJUANA ,THE FACTS DAVID BOBLITT CDP - SUDP



**What do we hear
about Marijuana ?**

MYELINATION



CREATING NEURAL PATTERNS... MATURING

- The brain's plasticity means that neural pathways that get used survive and become defaults...and
- Pathways that do not get used don't survive.
- Example: dealing with social rejection, low self image?
- “Numb it out” with marijuana or learn ways to cope and feel better about self?

5 AGE OF FIRST USE/ADDICTION POTENTIAL/PERCEPTION OF HARM

- Age of first use early as 10 and avg. 12 -13.
- Regular use before age 15 predicts 63% will have adult dependence. (Dennis 2002)
- Perception of harm very low compared to other drugs, but may be increasing with new brain research.
- It is a gateway drug and addiction to marijuana may follow youth for many adult years, sometimes daily regular use.

6 EARLY POT USE MAY CHANGE BRAIN

- Regular use before age 16 causes changes in brain that can impair ability to focus, learn from mistakes, think abstractly.
- Early exposure cause neural changes.
- Early users did more poorly on tests of cognitive functions and mental flexibility.
- Early chronic users “make repetitive incorrect responses even while being told they are wrong”; called cognitive inflexibility, often seen in babies.

7 RISK OF DEVELOPING CANNABIS USE DISORDER; MODERATE TO SEVERE?

- Risk of developing dependence in adulthood if began smoking at age 18? 9%
- If began using in childhood or adolescence before age 18? 18%
- Risk of dependence if daily user under age 18? 35 to 40%
!!!!
- **Younger the user, greater risk of addiction.**
- (Winters, Lee 2008; Kandel and Davies 1992; Budney et al. 2007)

8 THC – THE MOLECULAR MASQUERADER (“MARIJUANA: WHAT’S A PARENT TO BELIEVE” BY TIMMEN CERMAK)

- Our brains are essentially pre-wired to respond to the chemicals found in marijuana.
- Cannabis-like molecules are important part of neurochemical balance in the brain.
- We have nerve cells that produce naturally occurring cannabinoid neurotransmitters that resemble THC.
- THC mimics these natural neurotransmitters.

9

THC – THE MOLECULAR MASQUERADER (“MARIJUANA: WHAT’S A PARENT TO BELIEVE” BY TIMMEN CERMAK)

- The artificial stimulation of novelty created by THC is like “virtual novelty”.
- THC turns the mundane into a source of artificial fascination.
- May turn things that used to give us “awe” and wonder into boring and worthless.
- Overstimulation tends to “dumb-down” the natural experiences.
- This Malaise can be known as A-Motivational Syndrome

DUDE WAITWHAT ..

- Considerable evidence suggests that students who smoke marijuana have poorer educational outcomes than their nonsmoking peers. For example, a review of 48 relevant studies found marijuana use to be associated with reduced educational attainment (i.e. reduced chances of graduating).³⁴ A recent analysis using data from three large studies in Australia and New Zealand found that adolescents who used marijuana regularly were significantly less likely than their non-using peers to finish high school or obtain a degree. They also had a much higher chance of later developing dependence, using other drugs, and attempting suicide.³⁵ Several studies have also linked heavy marijuana use to lower income, greater welfare dependence, unemployment, criminal behavior, and lower life
- satisfaction.^{36,37}



Dude...

Wait, what?

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DUDEWAITWHAT ??

- **Learning and memory.** The hippocampus plays a critical role in certain types of learning. Disrupting its normal functioning can lead to problems studying, learning new things, and recalling recent events. A large long-term study in New Zealand showed that people who began smoking marijuana heavily in their teens lost an average of 8 points in IQ between age 13 and age 38.

Dude.....

wait, what?

ICANHASCHEEZBURGER.COM



MARIJUANA WITHDRAWAL – YES THERE IS SUCH A THING

- New Brain Research has prompted changes in the DSM V to include Marijuana Withdrawal.
- Insomnia
- Depression
- Anxiety
- Loss of Appetite
- The Medical Community now agree Marijuana withdrawal is real.

I'd like a prescription



for medical marijuana

MyConfinedSpace.com

MEDICAL MARIJUANA



-
- 85 Active Cannabinoids
 - Delta 9 Tetrahydrocannabinol (Psychoactive)
 - Cannabadiol (Not Psychoactive)
 - The higher the CBD the lower the THC
 - CBD has low affinity THC has high affinity
 - If a strain has high THC by default it has low CBD.
 - Cannabadiol does not get you high.

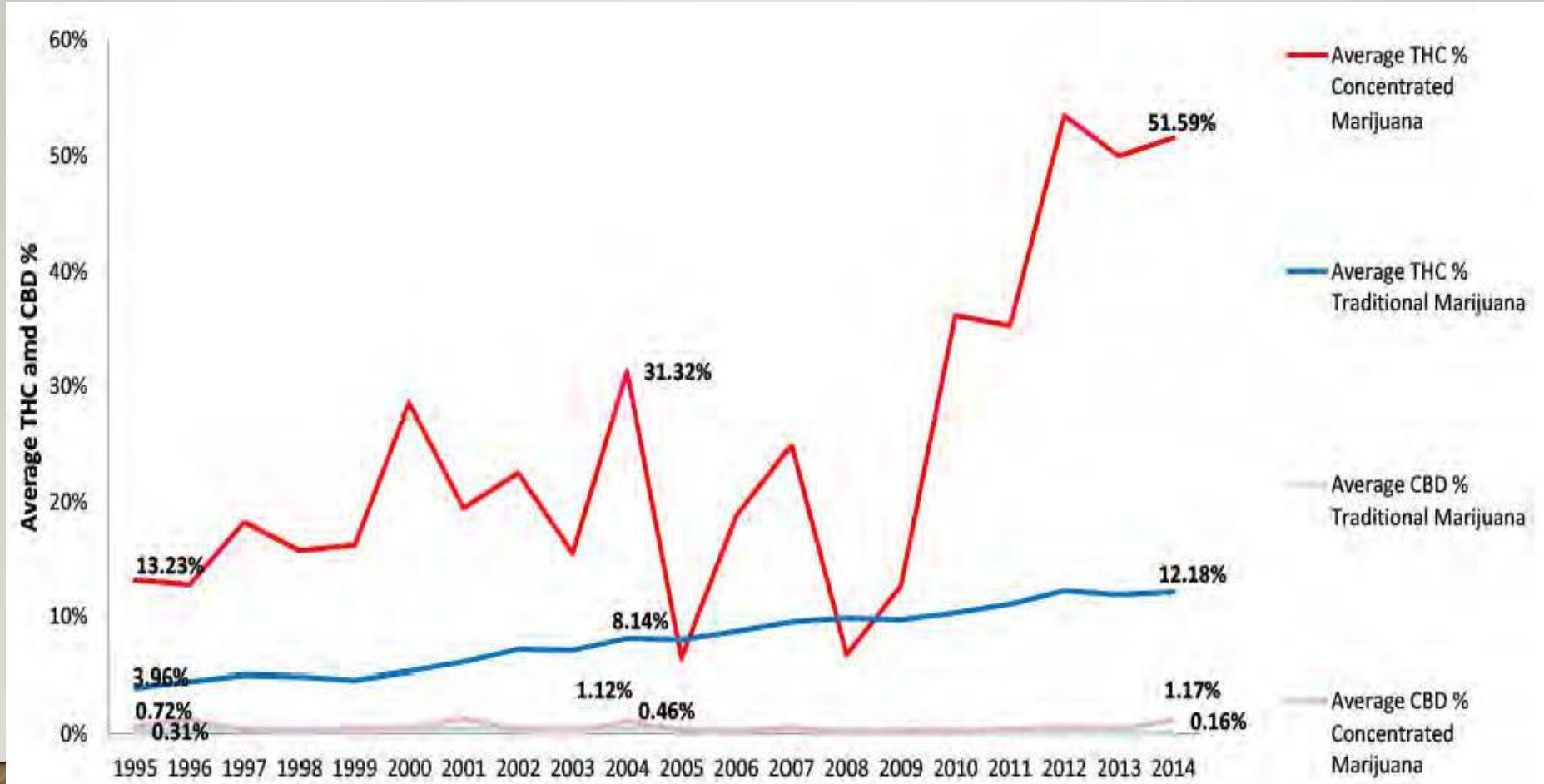
CANNABADIOL

- For reasons discussed previously, despite its molecular similarity to THC, CBD only interacts with cannabinoid receptors weakly at very high doses (100 times that of THC),^{xl} and the alterations in thinking and perception caused by THC are not observed with CBD. The different pharmacological properties of CBD give it a different safety profile from THC.
- Nora Volkow July 2015

CANNABADIOL WORKS FOR

- Anti Seizure
- Anti Inflammatory
- Anti anxiety
- And yes .. It is being talked about as an anti craving drug.

THC GOES UP CBD GOES DOWN



MEDICAL



MARIJUANA

THE NUG

22 CONFUSING MESSAGES MAKE PREVENTION AND INTERVENTION MORE DIFFICULT...

- Is it legitimate medicine to heal pain?
- Or is it a recreational drug for getting high and having fun?
- Alcohol is a legal, recreational drug with addiction potential...
- Marijuana is now a legal, recreational drug with addiction potential AND it is also being dispensed as medicine.

RANDOM FACTS

- 80 % of the marijuana that was seized from adolescents and children in Washington state in 2013 originated at a dispensary. *National Bureau of Crime Statistics
- Oregon has seen a 26 % increase in cannabis use in youth in 8th and 9th grade since legal sales began in 2015 * Oregon Research Institute (Study published in addictions trend newsletter Jan 2018)

24 COST OF 3 YEARS OF LEGALIZATION...

- **A surge in regular marijuana use by minors.**
- Colorado now leads the country in past-month marijuana use among 12 to 17 yr. olds
- Washington State is in 6th place.
- Use by minors grown faster than national rate since legalization began in 2012.
- (NSDUH SAMHSA 2015)

25 SURGE IN TREATMENT ADMISSIONS IN COLORADO, WASHINGTON...

- Major network of treatment providers reported that teen admissions for marijuana rose **66% from 2011 to 2014.**
- In WA State, 2015 youth treatment admissions: **70% marijuana, 19% all other drugs, 11% alcohol.**

• (DBHR/DSHS Trends Report 2016) (Arapahoe House September 2014)

RESOURCES

- Drugabuse.gov (National Institute On Drug Abuse)
<https://www.drugabuse.gov/drugs-abuse/marijuana>
- Center on Addiction
<https://www.centeronaddiction.org>
- Us Department of Health and Human Services
<https://www.hhs.gov/ash/oah/adolescent-development/substance-use/marijuana/resources/index.html>

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