



Partnership

for A Healthy Iowa

ON THE ROAD TO LESS COMPLICATED

THE MEDICAL MARIJUANA PARADOX

THAT IS “EXACTLY” THE PROBLEM

THE MEDICAL USE OF MARIJUANA is not the same as MEDICAL MARIJUANA LAWS

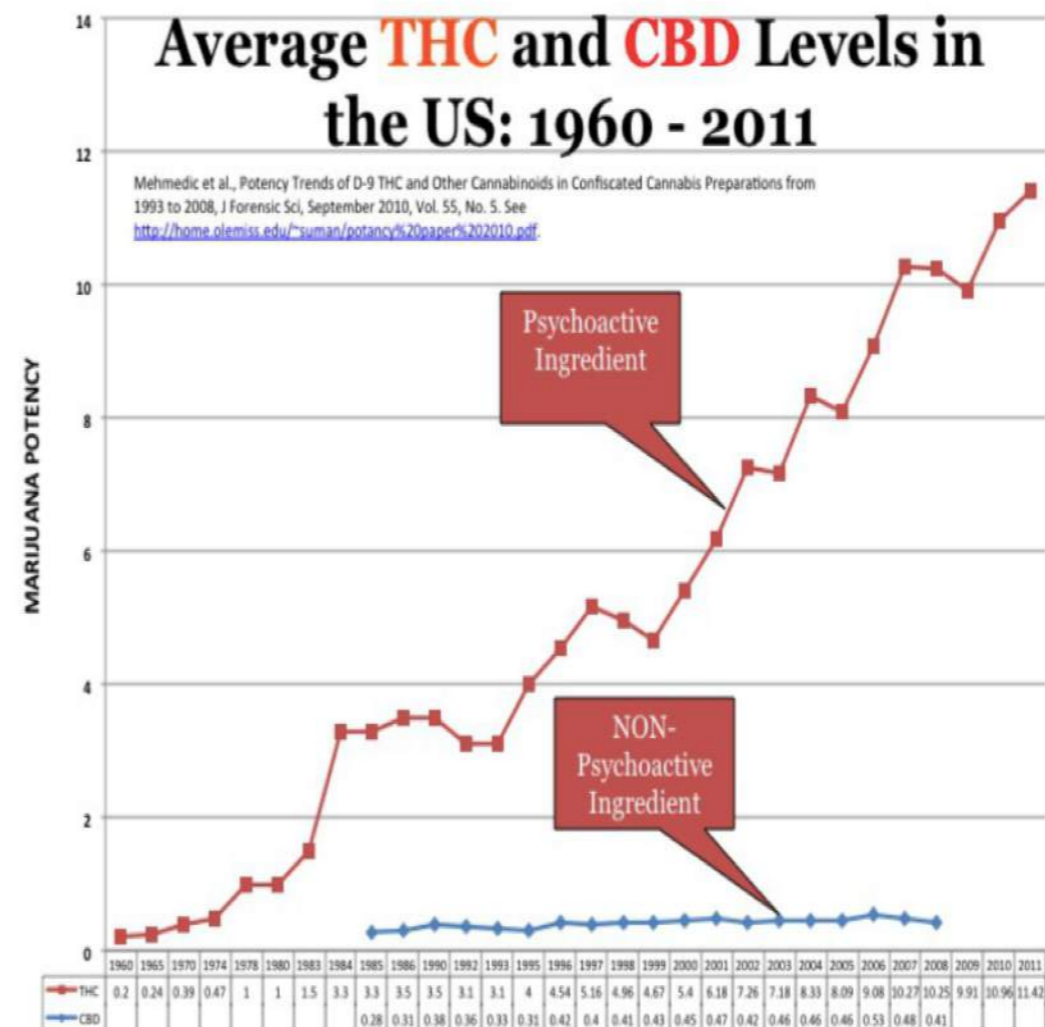
- **Important Distinction**
- Industry wants to argue whether MJ has **MEDICAL USE**. It does. So do cocaine, opium & meth.
- The question is: are **MEDICAL MARIJUANA LAWS** a good way to provide this medicine?

CBD & THC — BOTH DERIVED FROM MARIJUANA

Iowa's CBD law is really a medical marijuana law.

People can get high on 3% THC.

1970s pot was < 2%, before hydroponics.



TO FDA OR NOT TO FDA

Criteria for Approving a Medicine or Medical Delivery System (MMLs)

- 1. Has medical benefit.
- 2. No serious side effects.
- 3. If side effects, then significantly superior to available alternatives.
- Medical marijuana laws only pass criteria #1.



THERE ARE SOME BENEFITS ...

Substantial Evidence of Medical Benefit

- Pain – most studied neuropathic
- Spasticity of multiple sclerosis
- Nausea & vomiting of chemotherapy
- Small studies but good results
 - Appetite loss and wasting in cancer and maybe HIV patients
 - Crohn's disease



THE RESEARCH IS SINGING A DIFFERENT SONG



Two caveats.

- Studies compare cannabinoids to placebo, not to other medicines.
- For all medical conditions, there are non-addictive medicines that work just as well as marijuana.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3012235/>

PRO-MARIJUANA CONCERNS IGNORE THE BEST RESEARCH

Most studies were done with prescription cannabinoids, not marijuana.

- **Marinol** dronabinol
 synthetic THC
- **Cesamet** nabilone
 synthetic THC
- **Sativex** nabiximols
 THC & CBD
- **Epidiolex** cannabidiol
 Pure CBD



A POPULAR, BUT UNSCIENTIFIC MARKETING SPIN

- 2018 Study:
1500 pain patients
on opioid pain
medicine. Many
also used marijuana.
- “Those who used cannabis
had greater pain and lower self-efficacy in managing pain.”
- No evidence marijuana use reduced prescribed opioid use
or increased rates of opioid discontinuation.



THERE ARE BETTER, FDA APPROVED “MEDICAL” CHOICES

2013 Study: Marinol vs Marijuana

- Both drugs worked equally well for pain.
 - But Marinol worked almost twice as long.
 - Participants said: not as high from Marinol as from MJ.
- Z.D. Cooper et al. “Comparison of the analgesic effects of dronabinol and smoked marijuana in daily marijuana smokers” (Sept. 2013)
Neuropsychopharmacology
www.ncbi.nlm.nih.gov/pubmed/?term=Comparison+of+the+Analgesic+Effect+s+of+Dronabinol+and+Smoked+Marijuana+in+Daily+Marijuana+Smokers



UNINTENDED, BUT NOT UNKNOWN

No evidence and makes illness worse

- Glaucoma
- Epilepsy
- Alcohol or other drug abuse

- Not beneficial for any psychiatric illness
- Anxiety
- Depression
- PTSD



MAY BE PUTTING OUR VETERANS AT RISK



Good PTSD Study – uses more than self-report (drug use, violent behavior, and employment.)

- 2,276 veterans in PTSD tx over 20 years.
- Never used MJ or quit had fewest PTSD symptoms.
- Long-term users or started in tx had most symptoms, more drug & alcohol abuse, and more violence.
- No difference in employment

• Wilkinson ST et al. Marijuana use is associated with worse outcomes in symptom severity and violent behavior in patients with posttraumatic stress disorder. *J Clin Psychiatry*. 2015;76:1174-1180.

I GUESS THEY WERE WRONG IN THE '70S TOO!

Glaucoma

- Decreases intra-ocular pressure but only for 3-4 hours requiring constant dosing to avoid rebound.
- Decreases intra-ocular blood flow making symptoms worse.
- No evidence of benefit.
- Not recommended for glaucoma.



THAT SHIP APPEARS TO HAVE SAILED ...

Criteria for Approving a Medicine or Medical Delivery System (MMLs)

- 1. Has medical benefit – **Yes.**
- 2. No serious side effects -- **Pending.**
We shall see lots of side effects.
- 3. If side effects, then significantly superior to available alternatives – **No.**
Prescription cannabinoids like Marinol work as well or better, and non-addictive medicines usually work just as well.



The FDA is right not to approve marijuana

- Suppose the FDA approved a drug that
 - increased traffic fatalities,
 - increased workplace injuries,
 - caused ½ million kids to do worse in school,
 - doubled the school dropout rate,
 - increased the number of suicides,
 - caused psychotic disorders,
 - was linked to violence including mass shootings,
 - and predisposed people to heroin addiction.



These are the side effects of marijuana & medical marijuana laws.

MARIJUANA HAS LEARNED FROM BIG TOBACCO AND ALCOHOL

If other medicines work just as well, why do we have medical marijuana laws?

- The term medical marijuana was invented by NORML as a stepping stone to legalization
<https://www.nationalfamilies.org/legalization/redherring.html>
- The idea did not come from physicians, health care providers or patient advocacy groups.
- Ballot measures sponsored by 3 pro-legalization billionaires.



YOU ARE NOW THE PROUD OWNER OF THESE CONSEQUENCES

What are the side effects of marijuana?

The Health Effects of Cannabis and Cannabinoids: The Current State of Evidence and Recommendations for Research (2017)

National Academy of Medicine

- Strong or moderate evidence for link to
 - Motor vehicle accidents
 - Overdoses by children in legalization states
 - Impaired learning.
 - Schizophrenia
 - Worsening bipolar disorder
 - Depression
 - Suicide
 - Social anxiety
 - Abuse of alcohol, tobacco or other drugs.



THE “COST” OF DOING BUSINESS

What are the side effects of medical marijuana laws?

- Diversion to substance abuse
- Increased teenage & adult use
 - Worsens the opioid epidemic
 - Worsens PTSD & Bipolar
 - Increased traffic fatalities
 - Psychiatric illness – schizophrenia, depression, social anxiety, suicide.
 - Workplace turnover, absenteeism, poor performance
- A drain on state budgets.



WHEN IS A DOCTOR NOT A “DOCTOR”

Diversions: How do medical marijuana laws encourage substance abuse?

- **Step 1: Pot doctors.**
- Patients don't go to PCP. They go to pot doctors who rarely say no.
- Study: 1655 pts applied for MM card. Only 2% turned down. Mostly because they would not pretend a medical condition. J Drug Policy Analysis

2011



CannaMed
Thousand Oaks CA

Medical Marijuana Consultations
Under Prop 215

**If You Don't Qualify Your
Consultation Is Free.**

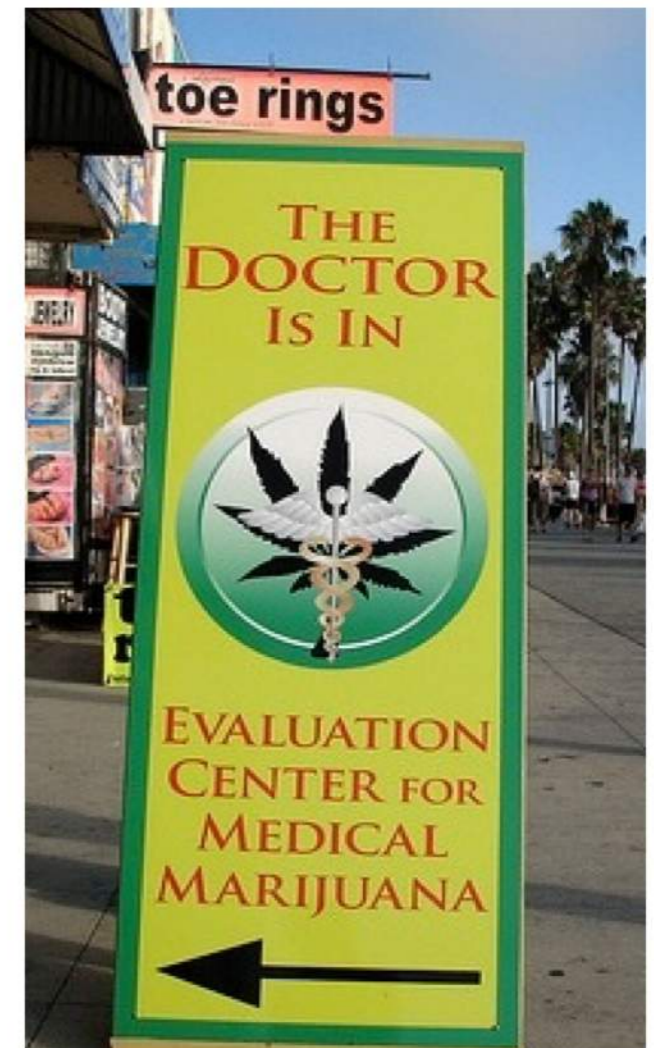
1879 E. Thousand Oaks Blvd.,
Thousand Oaks
Phone: (805) 497-9190
www.cannamed.com

MONEY TALKS

A handful of doctors write most recommendations



- Montana, 2011:
 - 10 docs wrote 90% of recommendations.
 - One doctor wrote 40%.
- Arizona, 2012:
 - 24 doctors wrote 73% of all certifications.
 - Naturopaths wrote 62%.



DIVERSION EQUATES WITH ABUSE

How medical marijuana laws cause diversion

- Substance abusers who make up or exaggerate a story of pain, or who convince themselves that their pain responds best to MJ.
- A pot doctor who only makes money if he says yes.
- It's a pretend physician-patient relationship that effectively legalizes the drug for any adult who wants it.



IN SEARCH OF THE ILLUSIVE “CURE” FOR PAIN

Diversions: Step 2

Most patients claim pain, not serious illness

- Most common uses – pain, anxiety, depression, insomnia
- 2014 study of 7 states Sabet et al. “Why do people use medical marijuana? The medical conditions of users in seven U.S. states” *The Journal of Global Drug Policy and Practice*
- 91% - Pain 3% - Cancer 2% - AIDS, Glaucoma, Alzheimer’s, Hep C, ALS
- *Cannabis and Cannabinoid Research 2016*
- 61% - Pain 58% - Anxiety 50% - Depression 3% - Cancer 3% - Crohn’s
- *Health Affairs 2019* Chronic Pain – 62%

PAIN

Table 4. Arizona Medical Marijuana Active Qualifying Patients Medical Condition Profile

Patient medical condition profile of Active Cardholders [¶]	Totals	Percent Total
Alzheimer's	60	0.04%
Cachexia	138	0.08%
Cancer	3,857	2.28%
Chronic Pain	147,108	86.80%
Crohn's Disease	551	0.33%
Glaucoma	1,066	0.63%
Hepatitis C	821	0.48%
HIV/AIDS	650	0.38%
Muscle Spasms	989	0.58%
Nausea	817	0.48%
Post-Traumatic Stress Disorder (PTSD)	2,142	1.26%
Sclerosis	42	0.02%
Seizures	1,228	0.72%
Two Or More Conditions	10,009	5.91%
TOTAL	169,478	100.00%

[¶]Unique debilitating conditions

Arizona

Pain 93%

(includes two conditions)

Cancer 2%

PAIN

Colorado

Pain 93%

Cancer 5%

Table 3. Frequency of conditions

Reported Condition	Number of Patients Reporting Condition	Percentage of Patients Reporting Condition**
Cachexia	1,110	1.28%
Cancer	4,488	5.17%
Glaucoma	1,120	1.29%
HIV/AIDS	0	0.00%
Muscle Spasms	29,372	33.81%
Seizures	2,993	3.45%
Severe Nausea	13,873	15.97%
Severe Pain	80,735	92.93%
Post-Traumatic Stress Disorder (PTSD)	7,674	8.83%

**Does not add to 100% as some patients report more than one debilitating or disabling medical condition.

PAIN

Rhode Island

Pain 61%

Cancer 6%

Qualifying debilitating condition	Number of patients	Percentage of total patients
Severe debilitating, chronic pain	4,558	61.61
Severe nausea	922	12.46
Post-Traumatic Stress Disorder (PTSD)	613	8.29
Cancer or treatment	476	6.43
Severe and persistent muscle spasms	389	5.26
Seizures, including epilepsy	149	2.01
Cachexia or Wasting Syndrome	104	1.41
Hepatitis C or treatment	77	1.04
Glaucoma or treatment	71	0.96
Positive status for HIV or treatment	25	0.34
AIDS or treatment	11	0.15
Agitation related to Alzheimer's Disease	3	0.04

PAIN ... A TREND UNRAVELLED

The Pain Loophole

- Easy to fake and hard to disprove. No objective test.
- Iowa's law allows "untreatable pain."
- In Iowa, 52% of CBD patients claim pain.
- Are these genuine patients or substance abusers?



MARIJUANA USERS ARE NOT YOUR AVERAGE PAIN PATIENTS

Diversions: Step 3 Who are the patients?

- *J Harm Reduction*
4117 mm applicants.
Avg pt 32 yo male.
88% used MJ < age 19.

• Thomas J. O'Connell and Ché B Bou-Matar (Nov. 3, 2007) "Long term marijuana users seeking medical cannabis in California (2001-2007): demographics, social characteristics, patterns of cannabis and other drug use of 4117 applicants" *Harm Reduction Journal*

- Montana – 10% of all probation & parole had MMJ cards



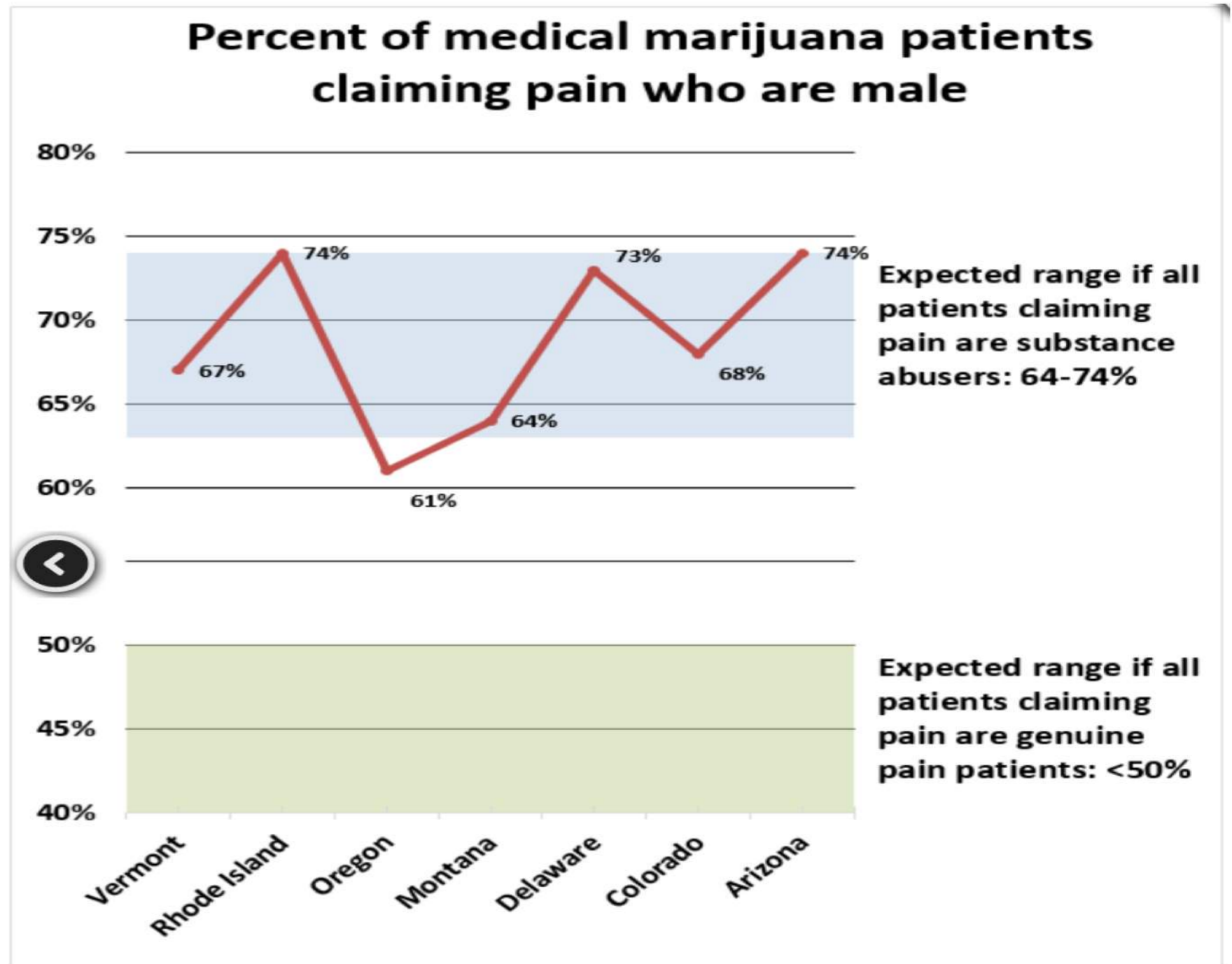
THEY OFTEN “KNOW” WHAT THEY NEED

**90% claim pain & often believe it themselves.
Are they motivated by pain or by substance abuse?**

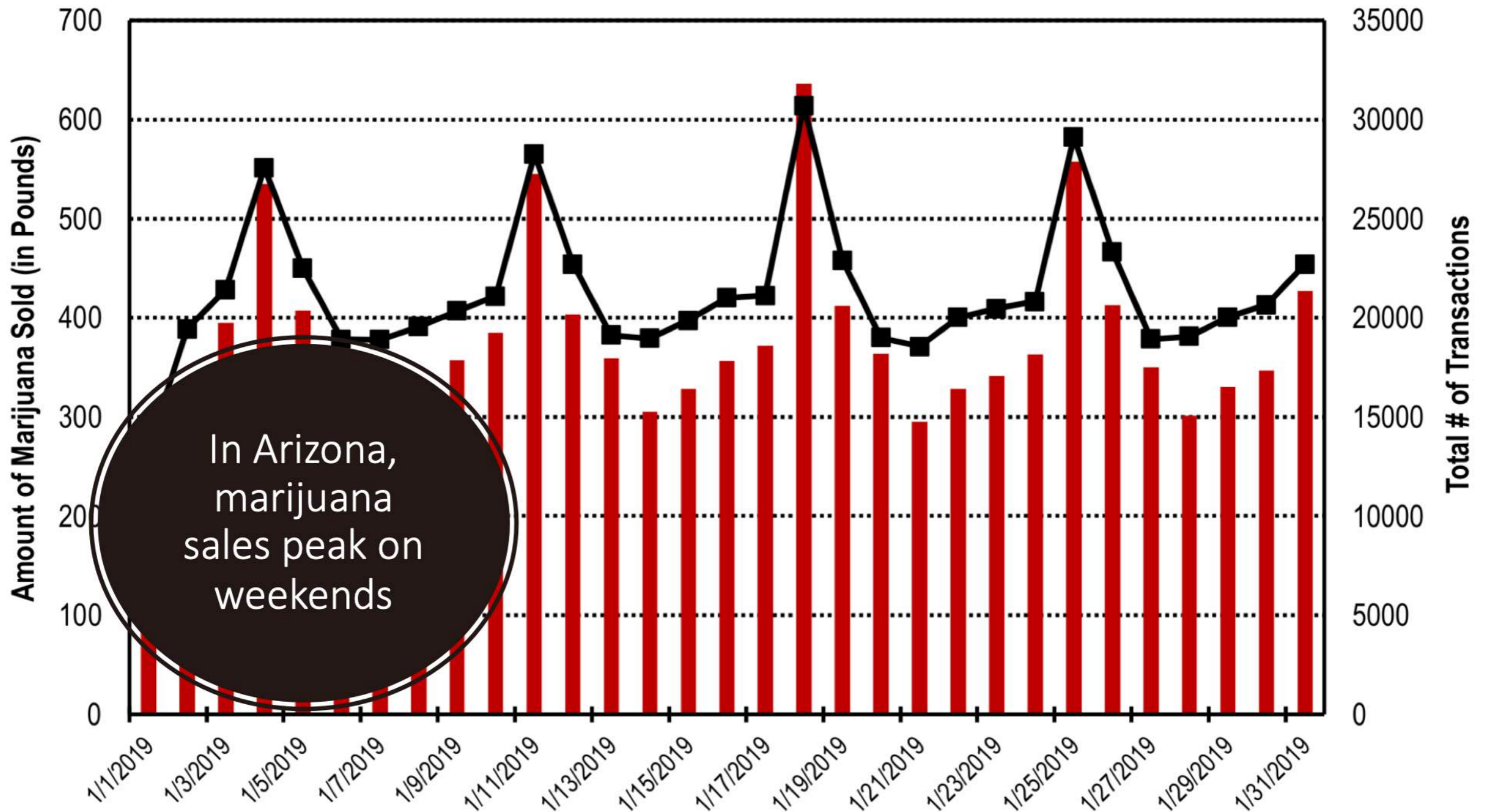
- Pain patients: Mostly female.
- Substance abusers (including MJ abusers)
 - 1/3 Female. 2/3 Male.
- So, if the patients at a pain clinic are 2/3 male, they are mostly substance abusers, not genuine pain patients.
- Contacted all Medical Marijuana Programs

A TREND EXPOSED

Gender ratio of MMJ pts matches substance abuse, not pain



DON'T WAIT FOR A FULL MOON



THE TRUTH IS OUT THERE

There are three types of MMJ patients

- 1) Just plain lying.
- 2) Substance abusers who believe they're treating pain, anxiety, or insomnia. Common form of denial.
- 3) Genuine medical patients



BUT IT MAY NOT BE WHAT THE MJ “USER” THINKS IT IS

Why are substance abusers convinced pot works?

- Alcoholic: I drink because I'm depressed. Less depressed when quits drinking.
- Smoker: Cigarettes help me relax. Research shows more relaxed when quit smoking.
- Marijuana user: Weed calms me down. It's usually anger, not anxiety, and gets better when they quit.
- Why do they think it helps when it doesn't?
 - They're medicating withdrawal symptoms. (irritability)
 - They're medicating feelings – which is what addicts do.
 - Brief burst of good mood, relaxation, calm but worse within minutes.
 - The addictive pathway says: this is the answer – and they believe it. (overeating)
 - Euphoric recall – test of depression during, after & recall.
 - The addict mind makes up symptoms to relieve.
- That's why medical marijuana patients are almost all substance abusers, and why they often get better when they quit using.

USE OR ABUSE?

Most medical marijuana patients report using the drug “recreationally.”

- One study: 55% acknowledged used MM recreationally. Morean ME, Lederman IR.

Prevalence and correlates of medical cannabis patients' use of cannabis for recreational purposes. Addict Behav. 2019 Feb 7;93:233-239.

- Two studies: > 75% said they used medical marijuana recreationally. Wall MM, Liu J, Hasin DS, Blanco C, Olfson M. Use of marijuana

exclusively for medical purposes. Drug Alcohol Depend. 2019 Feb 1;195:13-15. Schauer GL, King BA, Bunnell RE, Promoff G, McAfee TA. Toking, Vaping, and Eating for Health or Fun: Marijuana Use Patterns in Adults, U.S., 2014. Am J Prev Med. 2016 Jan;50(1):1-8.



WE'RE TRYING TO DO THE "RIGHT" THING

Iowa's CBD LAW is more tightly controlled than most medical marijuana laws

- < 3 % THC -- less attractive to drug users.
- Only capsules, tinctures & creams -- No quick high.
- No smokable plant -- No excuse for drug dealers.

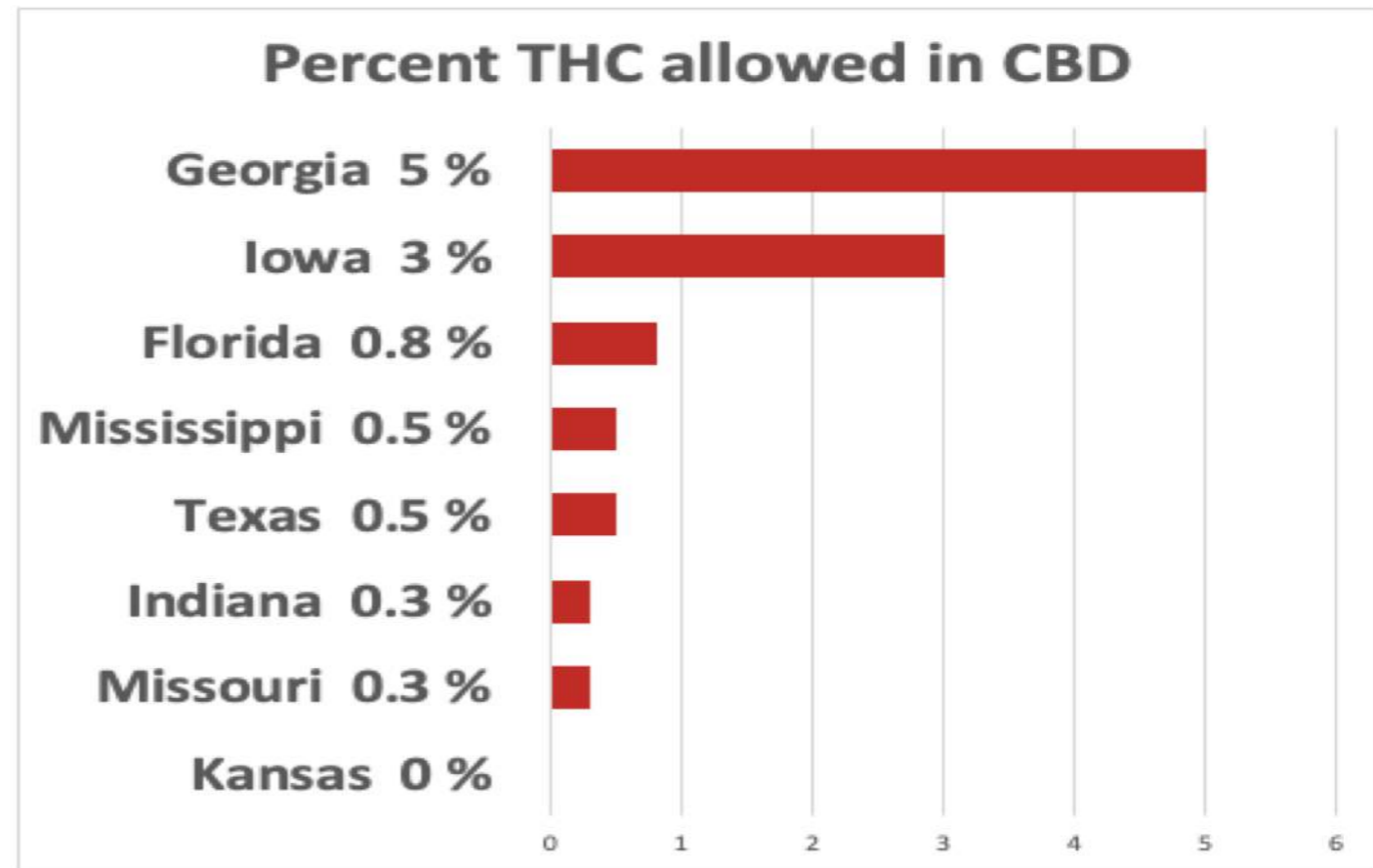
WE ARE NOT ALONE

12 States have
THC levels < 1.0

CBD should not
provide a high

Iowa should
decrease its
THC content to
prevent misuse
& diversion .

States with CBD Laws



From Hemp

Kentucky, North Carolina, Wyoming

Trace THC

South Carolina, Tennessee

Non-psychoactive CBD

Alabama

JUST BEING IN THE BUSINESS HAS RISKS & CONSEQUENCES

Side Effects of MM Laws

- Diversion to substance abuse
- **Increased use by adults & teenagers**
 - Marijuana makes opioid addiction worse
 - Marijuana increases psychiatric illness – schizophrenia, depression, social anxiety, suicide. PTSD worse
 - Increased traffic fatalities
 - Workplace turnover, absenteeism, poor performance
- A drain on state budgets.

SAD BUT TRUE

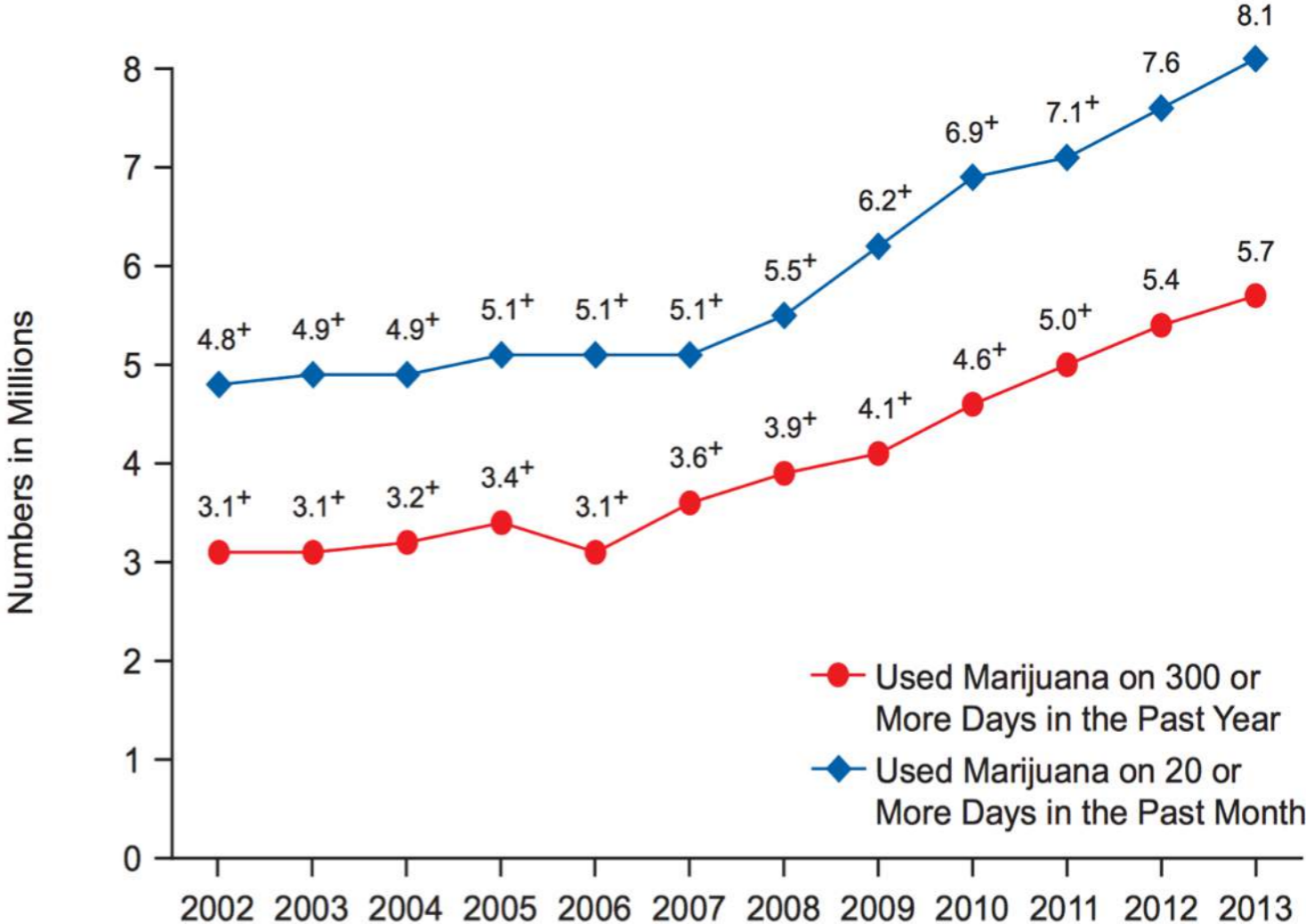
2017 Study shows that: MMLs caused increased use and abuse

- MJ use & abuse are higher in medical marijuana states.
- No difference before MMLs.
- Difference started & widened after passing MMLs
- *2017 JAMA Psychiatry*. US Adult Illicit Cannabis Use, Cannabis Use Disorder, and Medical Marijuana Laws: 1991-1992 to 2012-2013.

AND THE BEAT GOES ON

**Daily MJ use
doubled from
2006 - 2017**

Figure 2.15 Daily or Almost Daily Marijuana Use in the Past Year and Past Month among Persons Aged 12 or Older: 2002-2013

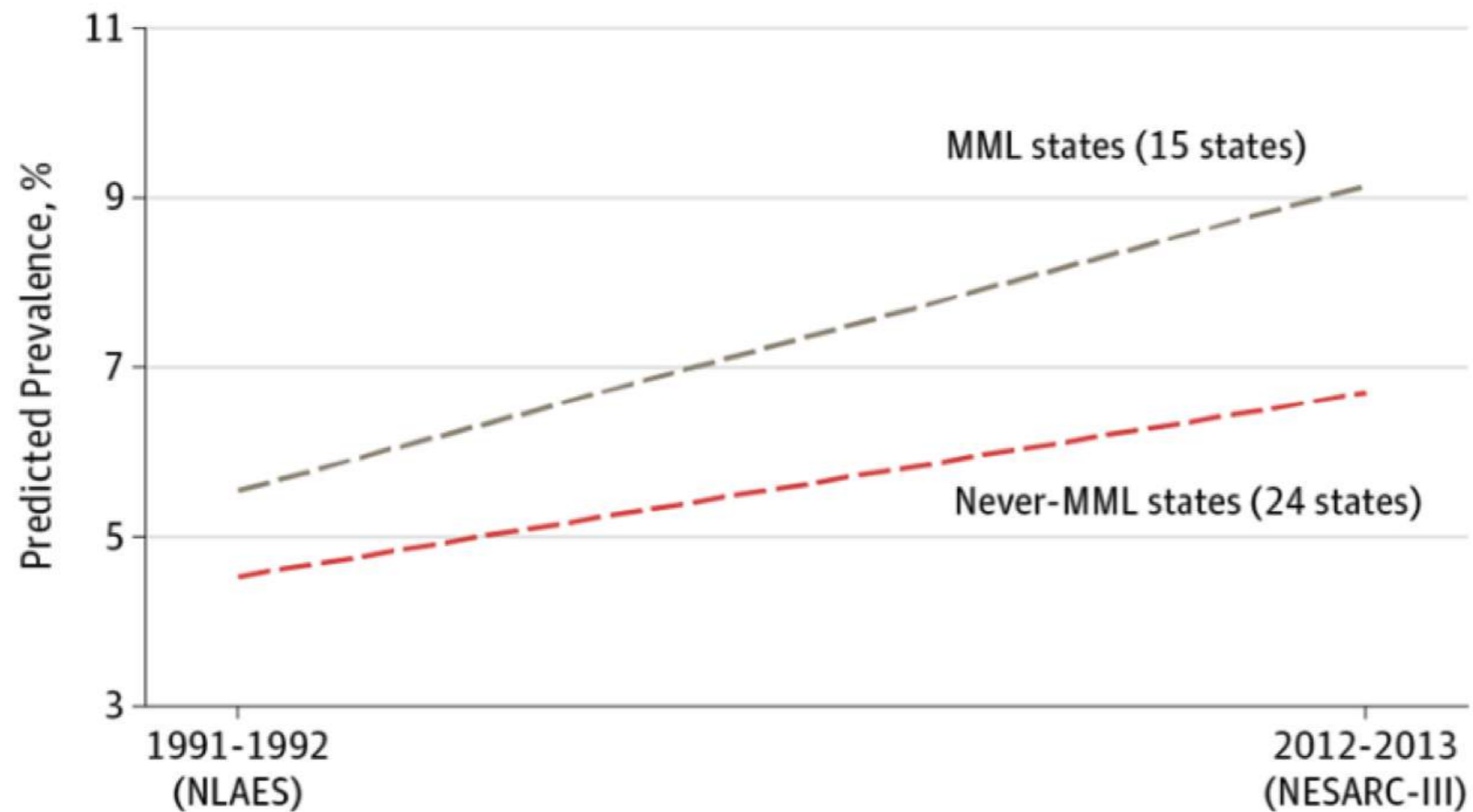


⁺ Difference between this estimate and the 2013 estimate is statistically significant at the .05 level.

CORRELATION OR CAUSATION

Increase in marijuana use 66% larger in states with medical marijuana laws

A 1991-1992 to 2012-2013 (overall period)



MORE CONSEQUENCES?

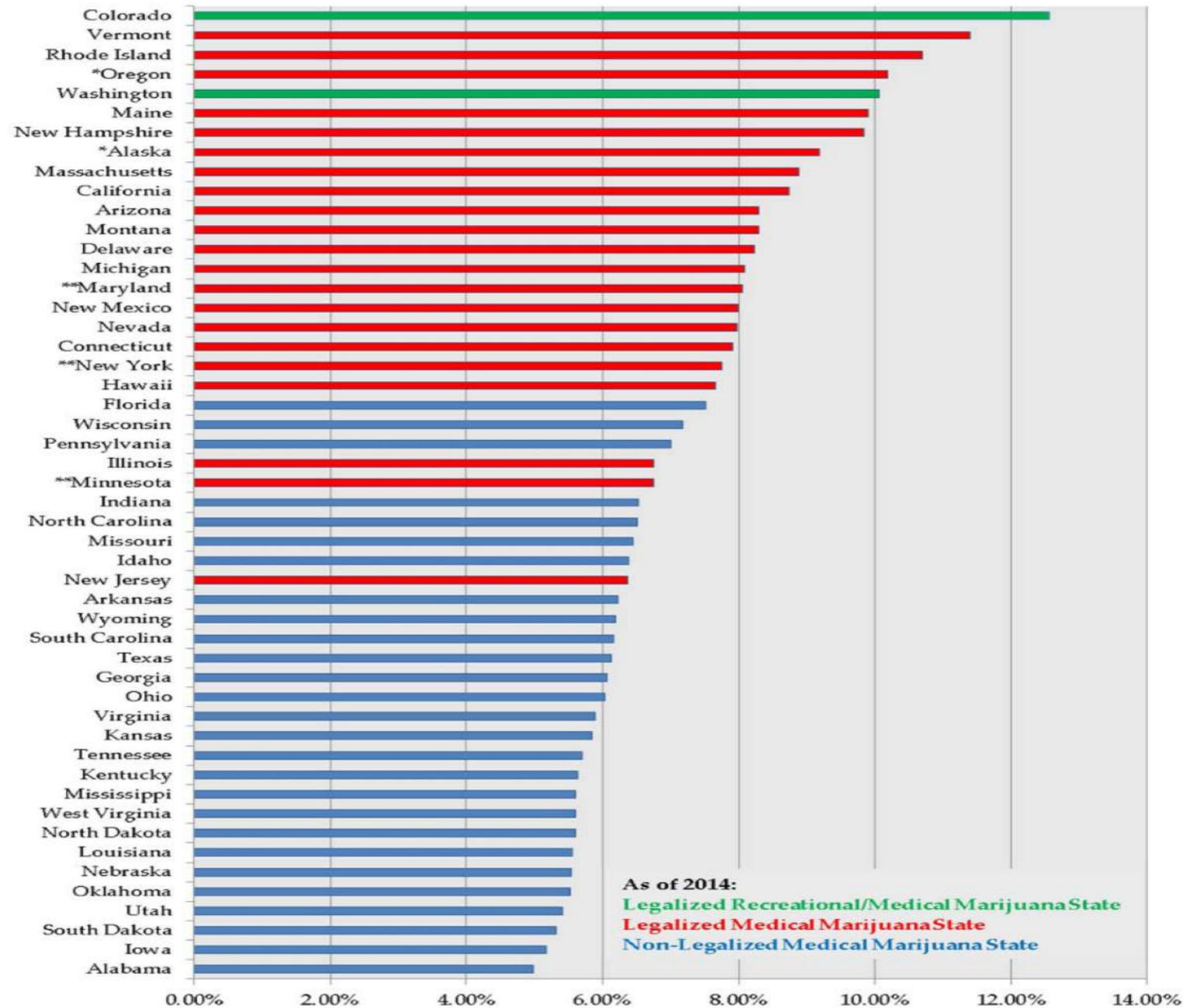
So medical marijuana laws caused the increased adult use and abuse of marijuana.

- **Did they also cause the increased teenage use?**



DATA SPEAKS LOUDLY

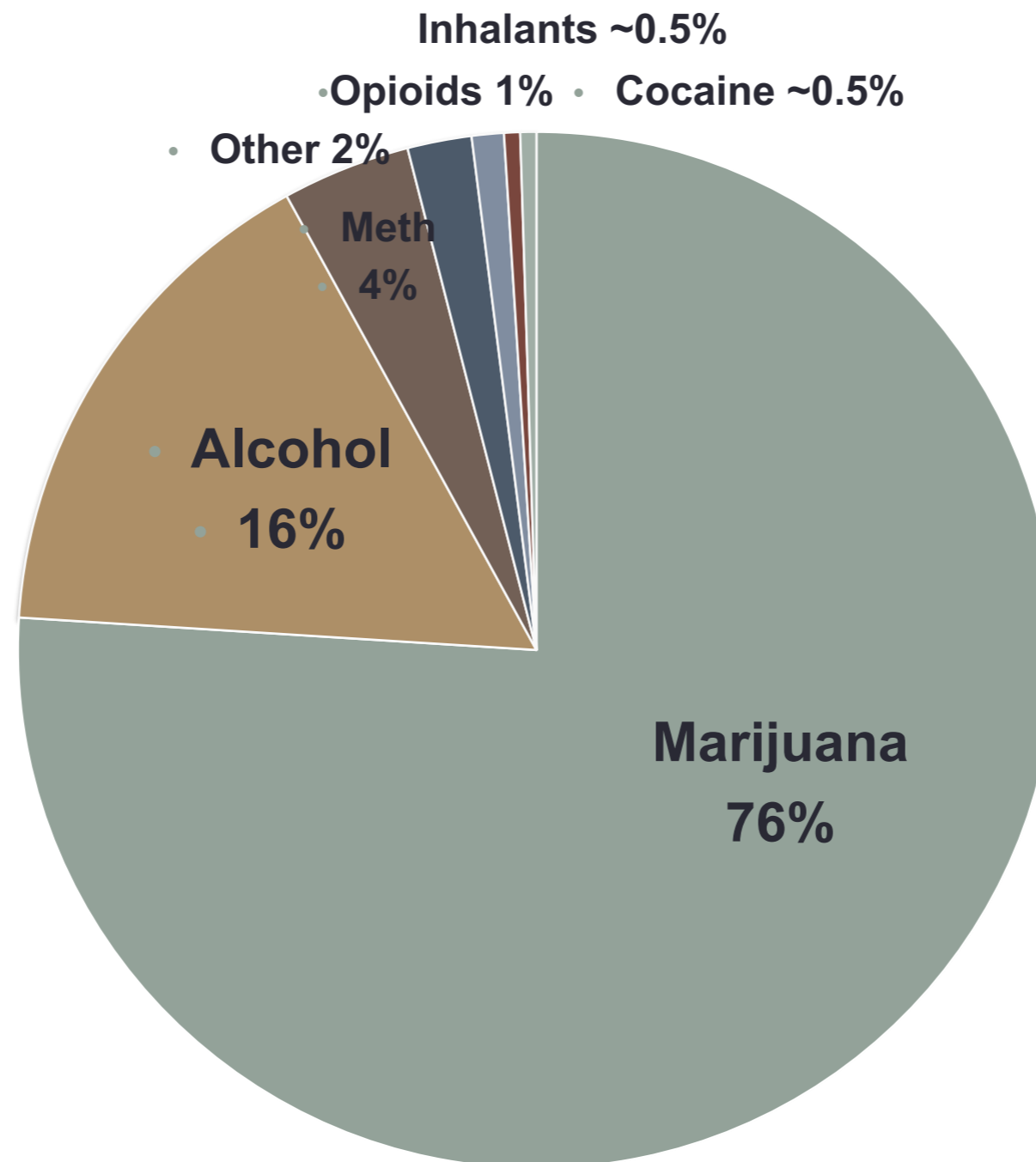
Past Month Usage, 12 to 17 Years Old, 2013/2014



SOURCE: SAMHSA.gov, National Survey on Drug Use and Health 2013 and 2014

Iowa Youth Drugs of Choice

Primary Substance by Juvenile Clients Entering Treatment



THE TRUTH IS NOT A MYSTERY

American Journal of Psychiatry 2017:

Marijuana makes opioid abuse worse

- Pain patients who used MJ were 3X more likely to abuse opioids
- Opioid abusers who used marijuana were 3X more likely to continue abusing opioids.
- Not less likely, more likely.

- Cannabis Use and Risk of Prescription Opioid Use Disorder in the United States *Am J Psy* 2017



THE TRUTH IS SCARY

Gateway Effect

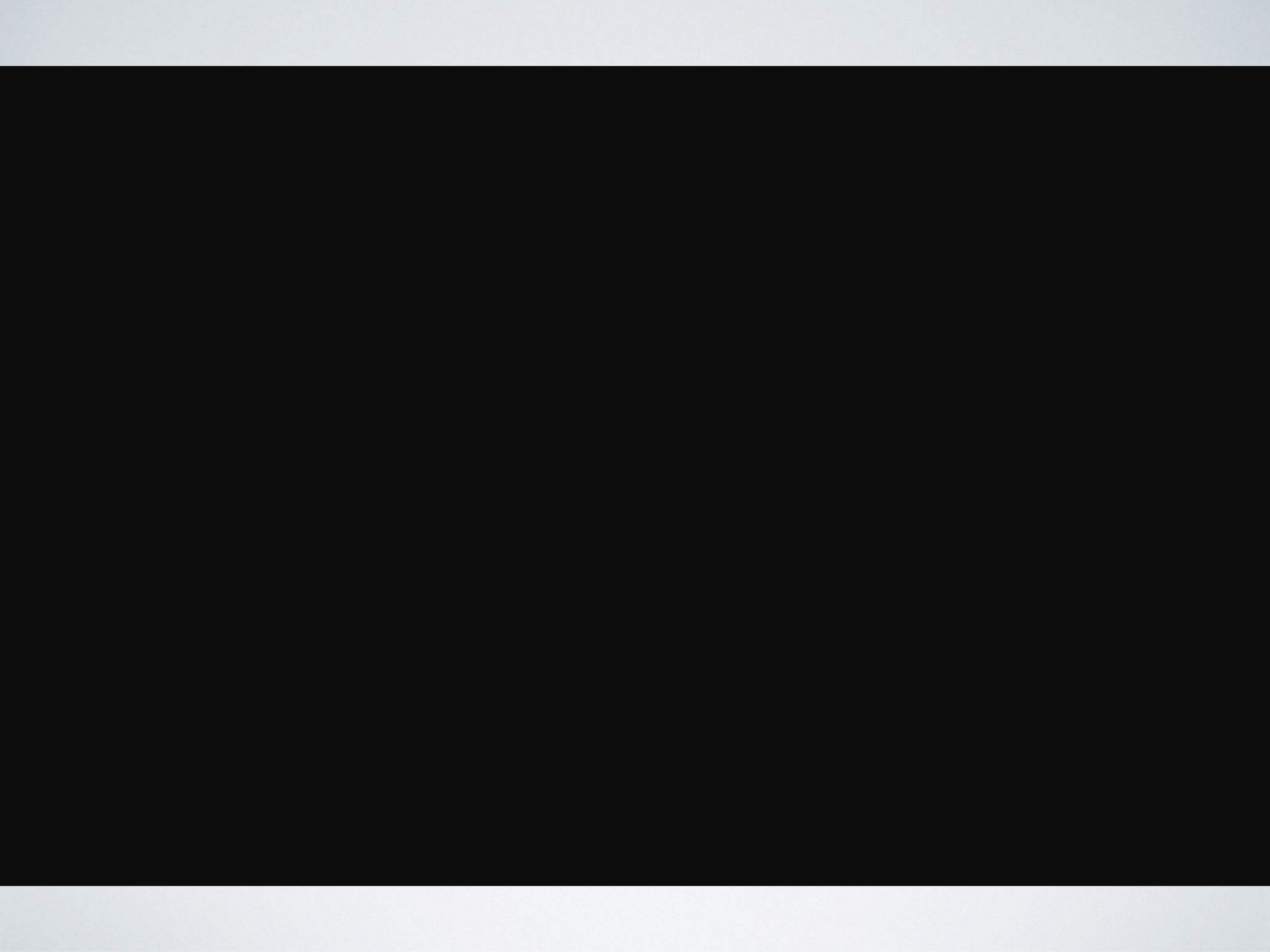
- A dozen studies: Teen MJ users more likely to abuse other illicit drugs.
- Several studies: MJ use almost always comes first.
- 2015 NSDUH: 96% illicit drug addicts start w/ MJ.
- Am J Psy 2017: Teen MJ users 2-3 times rate of opioid abuse.

THE RISK AND CONSEQUENCES WILL NEED TO BE MANAGED

Criteria for Approving a Medicine or Medical Delivery System (MMLs)

- 1. Has medical benefit.
- **2. No serious negative or side effects.**
- 3. If side effects, then significantly superior to available alternatives.
- Medical marijuana laws only pass criteria #1.
- **MEDICAL MARIJUANA LAWS HAVE LOTS OF NEGATIVE EFFECTS**





... ANOTHER SUBSTANCE ABUSE EPIDEMIC?

What caused the opioid pain reliever epidemic?

- Senator Claire McCaskill (D-Mo.): *“This epidemic is the direct result of a calculated sales and marketing strategy [by] major opioid manufacturers ...”*



Opioid Misuse: Precursors

Heroin use is part of a larger substance abuse problem.

Nearly all people who used heroin also used at least 1 other drug.

Most used at least **3** other drugs.

Heroin is a highly addictive opioid drug with a high risk of overdose and **death** for users.

People who are addicted to...



ALCOHOL

are

2x



MARIJUANA

are

3x



COCAINE

are

15x



Rx OPIOID PAINKILLERS

are

40x

...more likely to be addicted to heroin.

SOURCE: National Survey on Drug Use and Health (NSDUH), 2011-2013.

(Marijuana use appears to increase—>2x—rather than decrease, the risk of developing nonmedical prescription opioid use & opioid use disorder. Offson, Wall, Liu, Blanco/American Journal of Psychiatry, September 2017)

WE'VE BEEN HERE BEFORE ...

The Marijuana Industry learns from Big Pharma

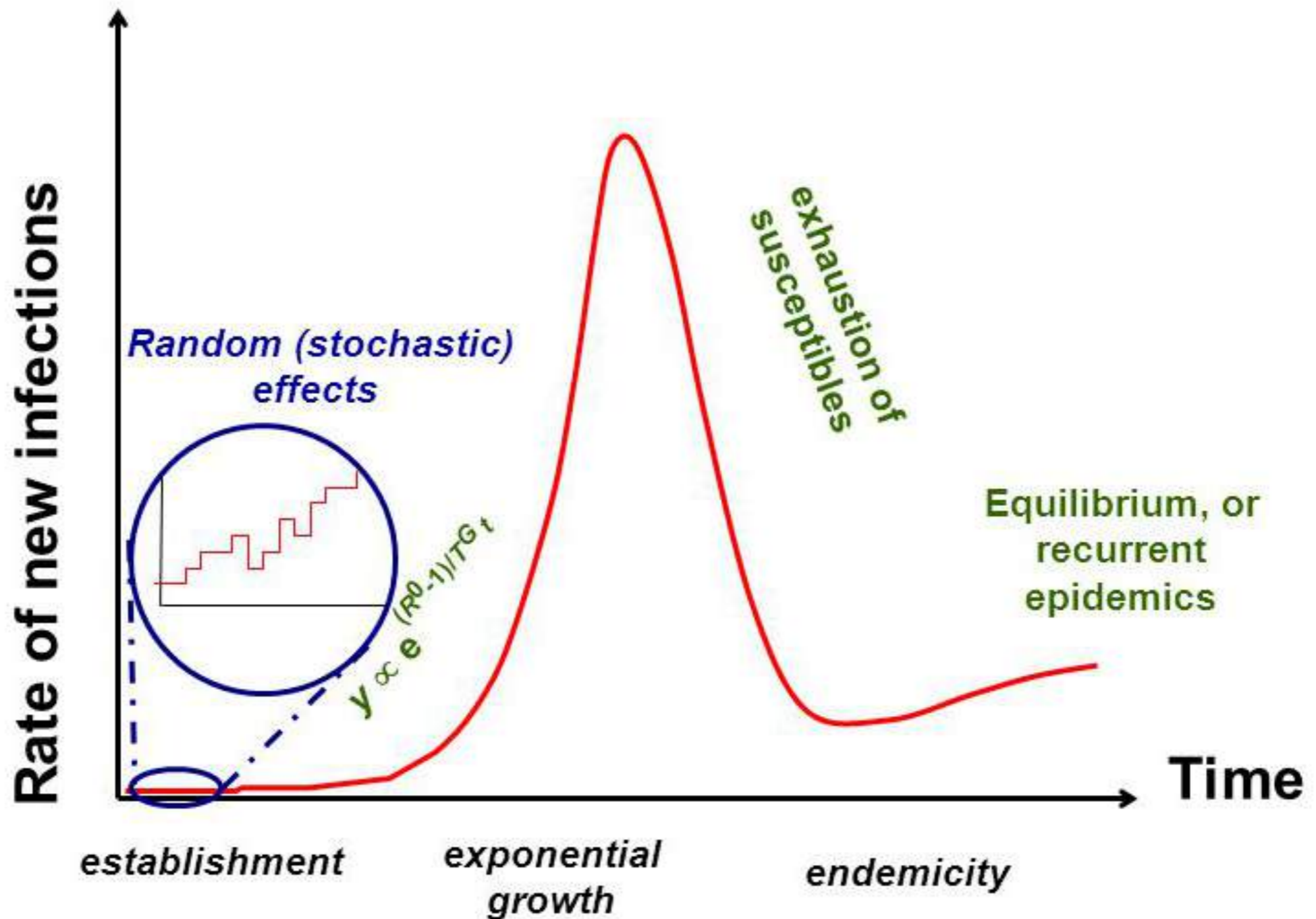
- The drug companies paid scientific experts
 - to produce deceptive research that they used to
 - tell doctors and the public
 - that opioids work well to treat chronic pain,
 - when the opposite is true.
- The marijuana industry convinced scientific experts
 - to produce deceptive research that they used to
 - tell doctors and the public
 - that marijuana works well to treat opioid addiction,
 - when the opposite is true.

THE MARIJUANA PARADOX

AN EXERCISE IN DISRUPTION



The epidemic curve



The Life Cycles of an Epidemic



1: Susceptible

2: Infectious

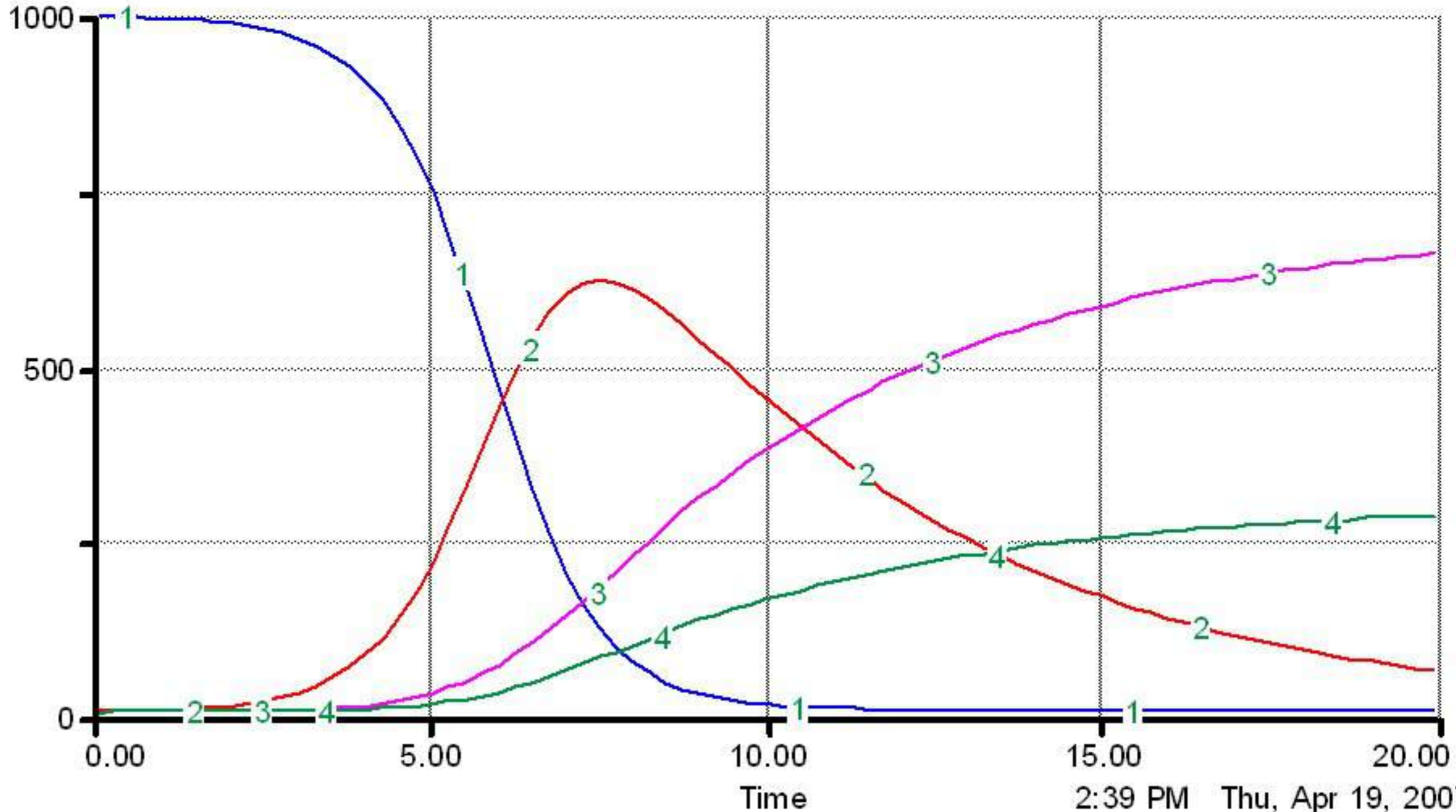
3: recovered

4: dead

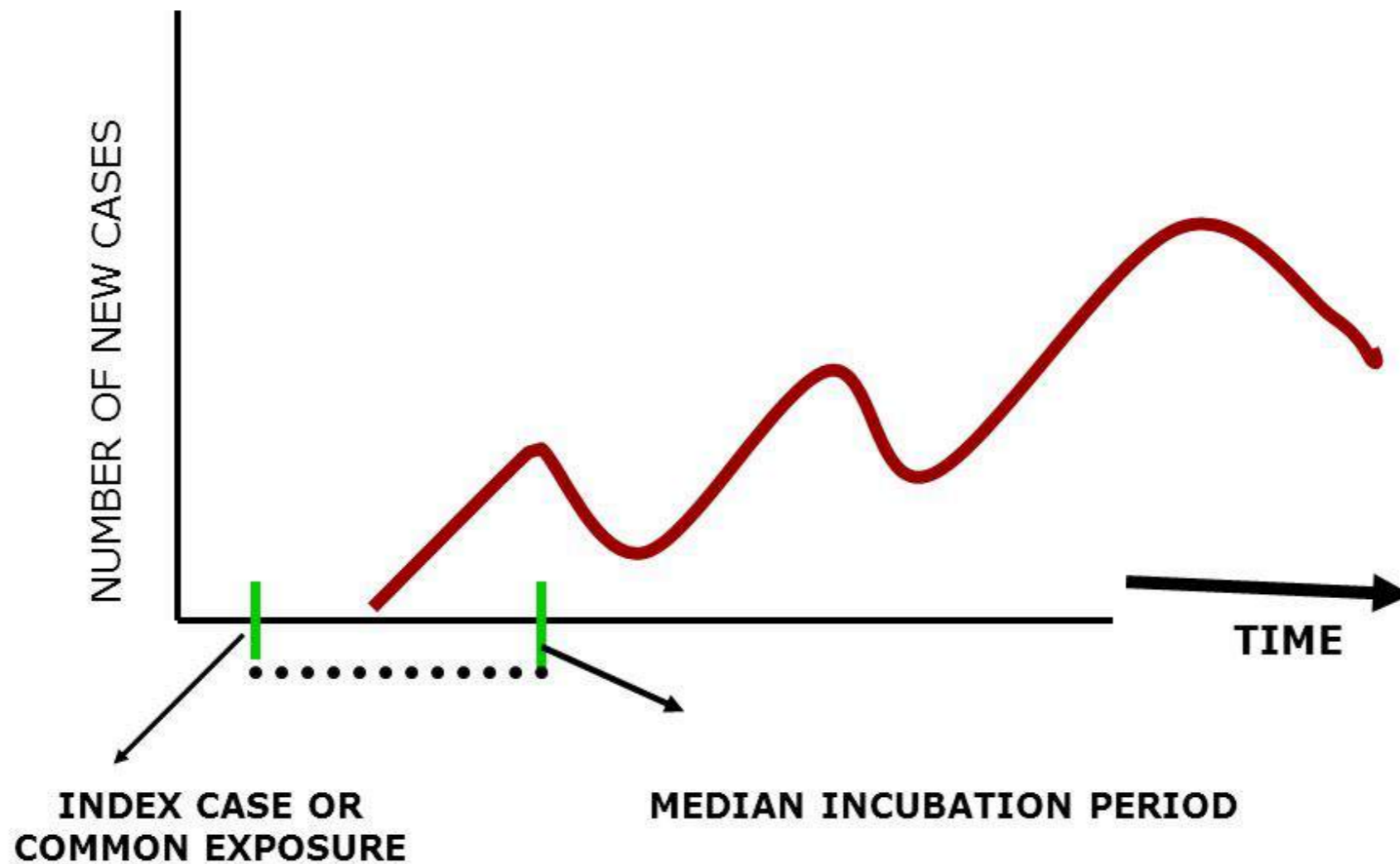
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EPIDEMIC CURVE – PROPAGATED EPIDEMIC

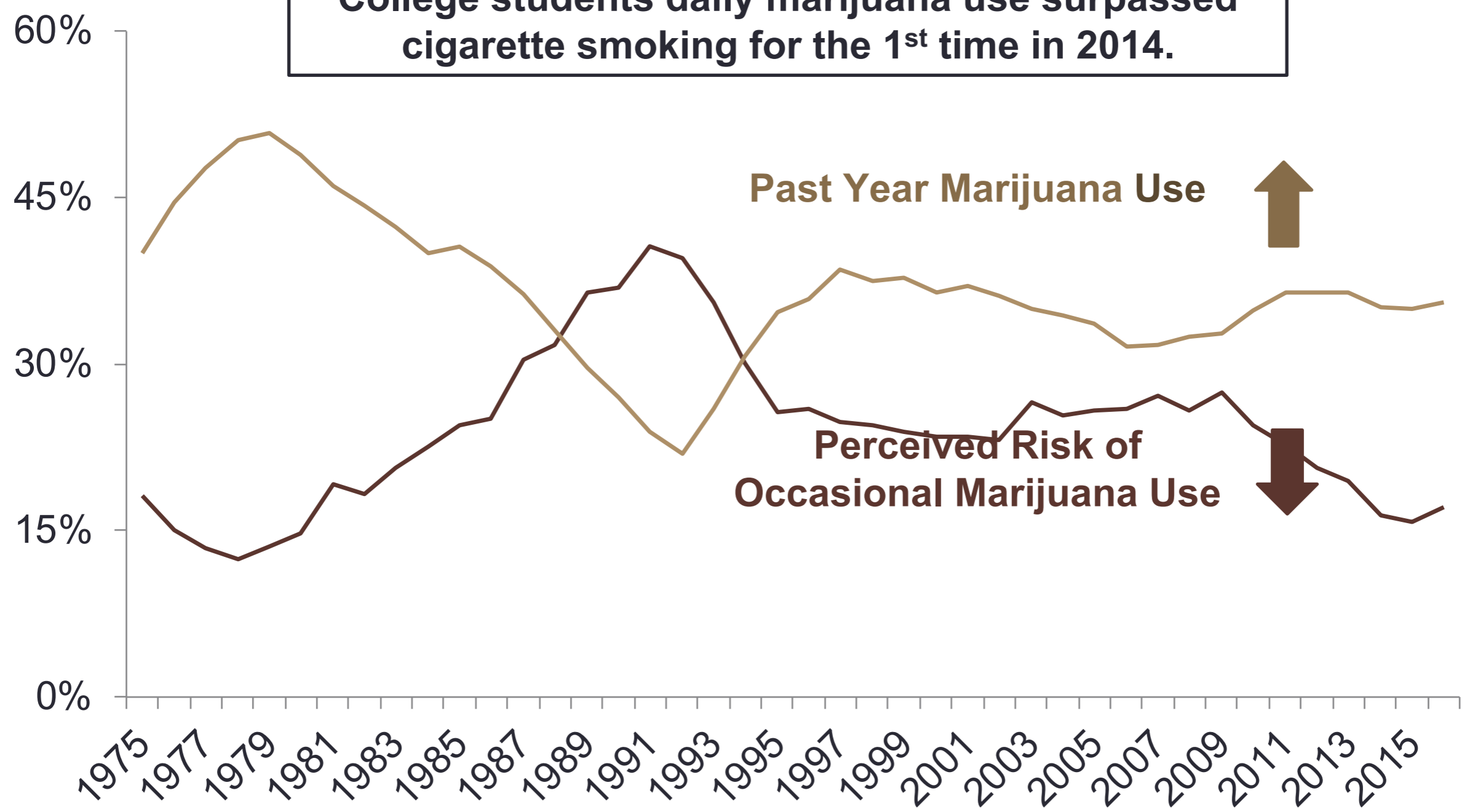


Recognize that as a whole, entire generations of professionals, can keep propagating the ideas that will not only combat the disease of addiction but will contribute to the behaviors that prevent the disease.

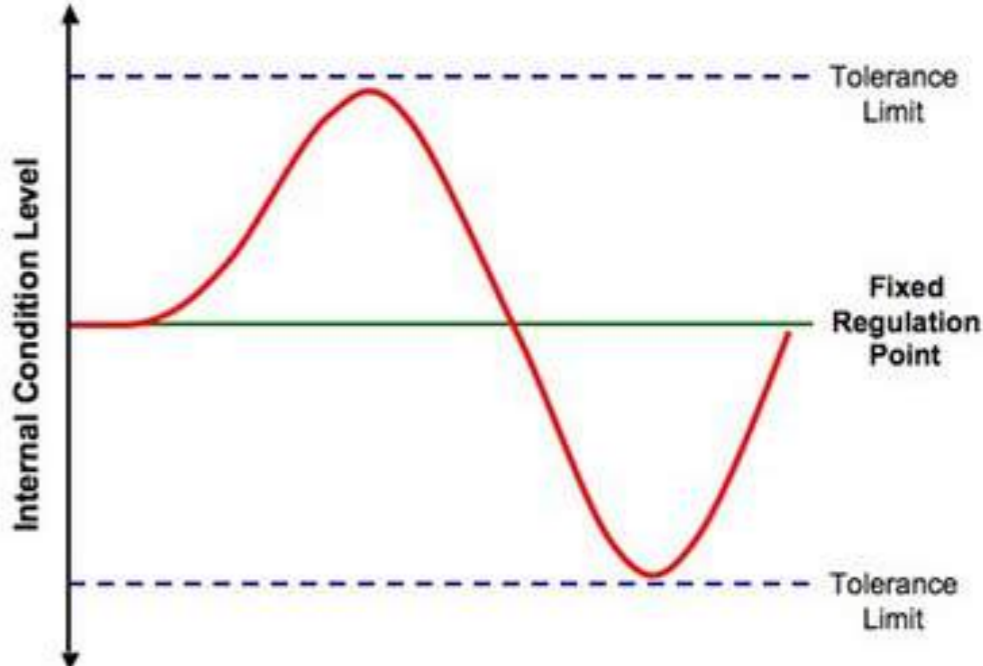
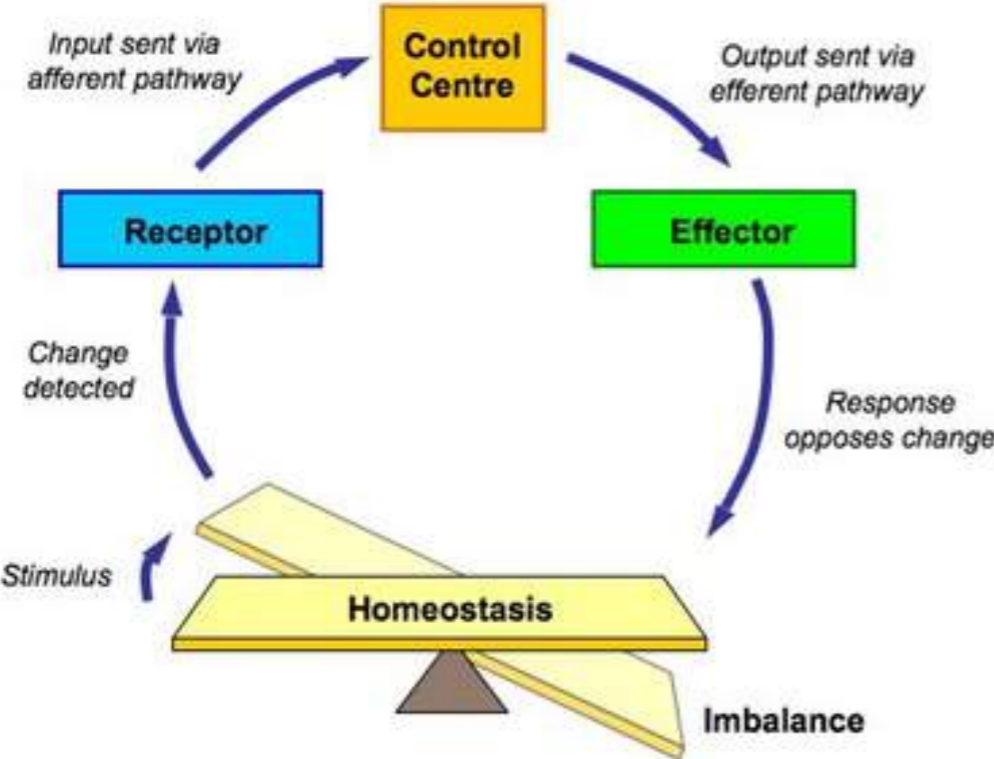
Youth Marijuana Attitudes vs. Use

Among U.S. 12th Graders

College students daily marijuana use surpassed cigarette smoking for the 1st time in 2014.



HOMEOSTASIS - KEEPING THE "CAR" ON THE ROAD

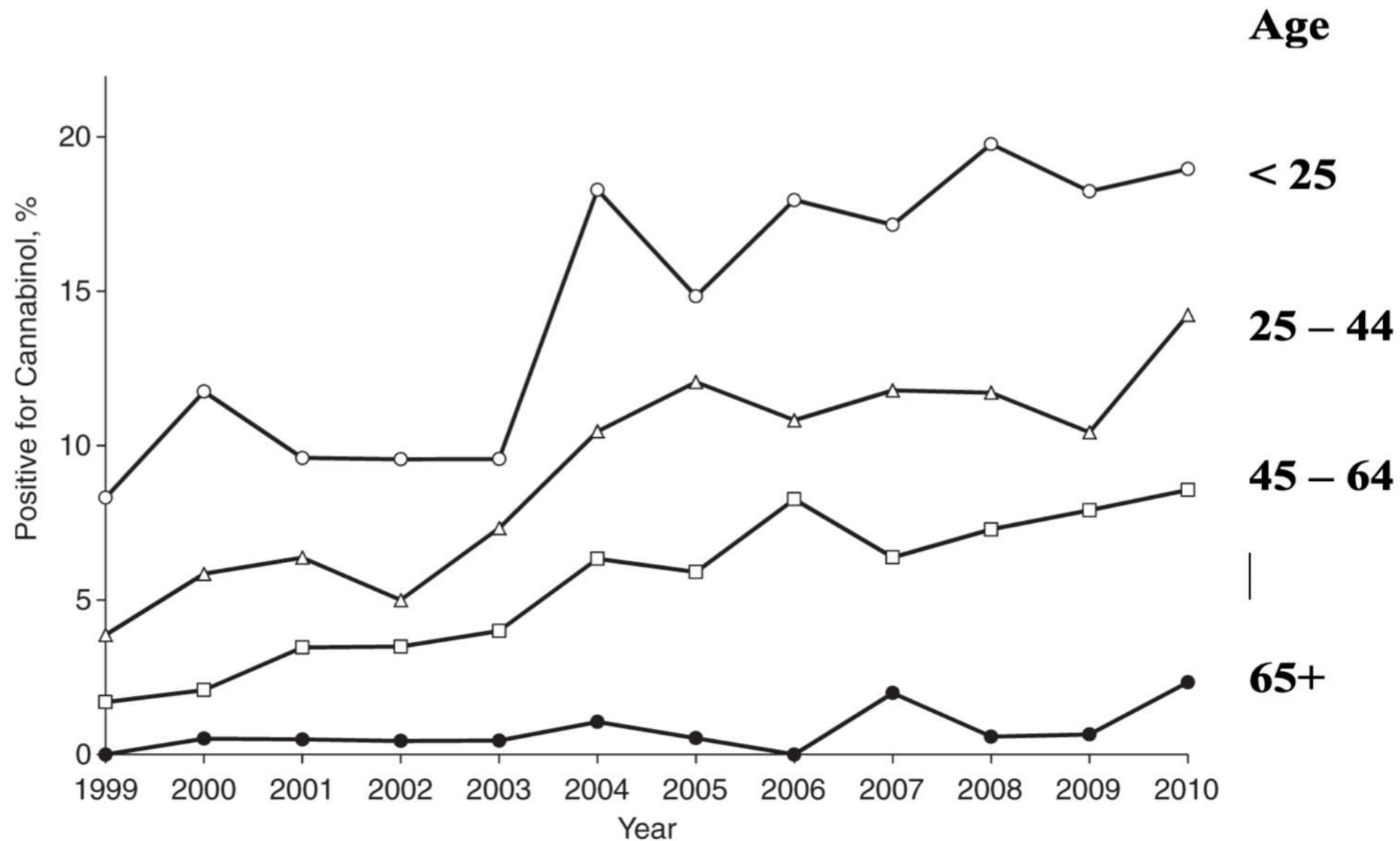


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ALCOHOL OR MARIJUANA ... HOW HIGH IS TOO HIGH?

Stoned driving fatalities tripled from 1999 – 2010

<http://www.ibtimes.com/driving-while-high-dangerous-fatal-car-accidents-involving-marijuana-triple-over-10-years-1553319>





- In Maryland, the number of crashes involving marijuana increased 80% the year after decriminalization.

https://www.nbcwashington.com/investigations/Marijuana-Impaired-Driving-506001531.html?fbclid=IwAR1hCmw_h6PvFTxTIYYCWpfi4fXCPdNLQ_fWXvmCRSCPgpMhql409Ak1HI

Traffic fatalities linked to marijuana are up sharply in Colorado. Is legalization to blame?

🕒 August 25, 2017 👤 medamints 📁 In the News

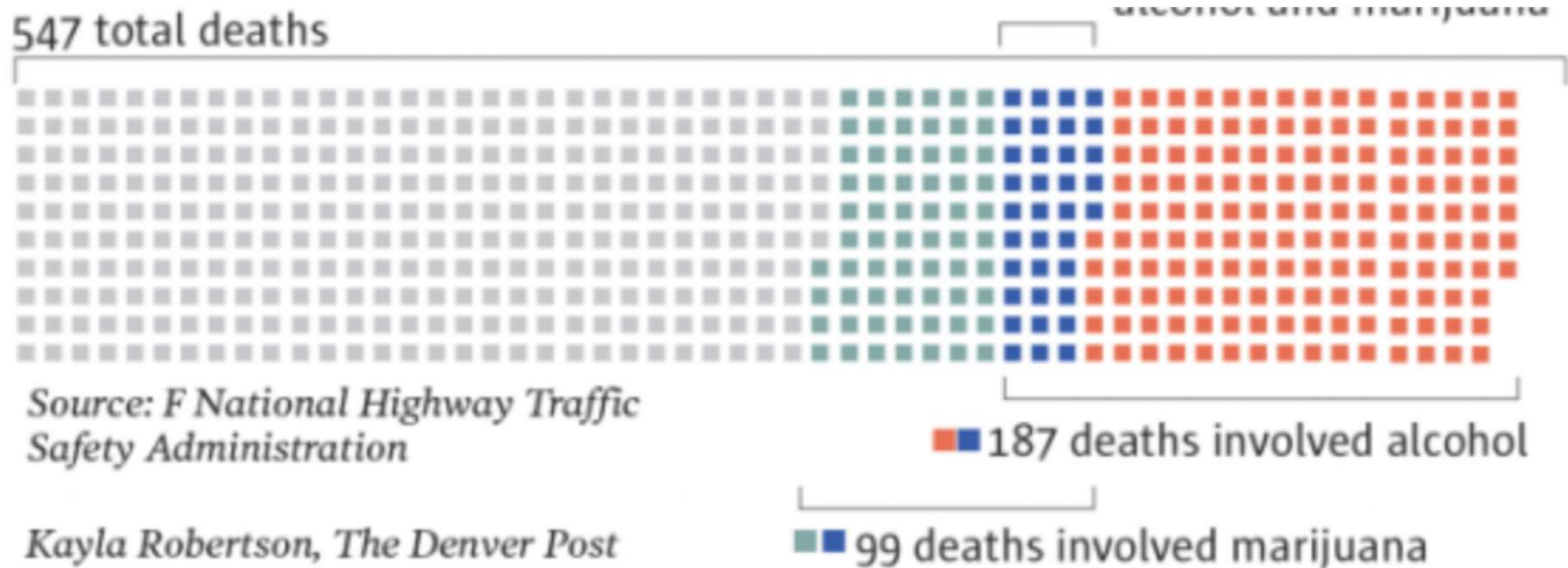


- Traffic fatalities w/ driver testing positive for active metabolite of THC
 - Washington: doubled the year after legalization
 - Colorado: tripled in the 3 years after legalization.

• <https://vancouversun.com/health/local-health/fatal-car-crashes-triple-among-drivers-high-on-marijuana-after-legalization-in-colorado-double-in-washington-state>

• <https://www.denverpost.com/2017/08/25/colorado-marijuana-traffic-fatalities/>

In Colorado, marijuana is gaining on alcohol.
Alcohol – 187 fatalities. Marijuana - 99



AND YET:

- Half of all MJ users believe it's safe to drive while high. <https://www.vaildaily.com/news/cdot-survey-more-than-half-of-colorado-marijuana-users-think-its-safe-to-drive-while-high/>
- 1/3 of teenage MJ users believe they drive better while high. Larry Copeland
"Survey: Nearly a quarter of teens drive while impaired" (Apr. 25, 2013) *USA Today*
www.usatoday.com/story/news/nation/2013/04/25/teens-drunken-driving-impaired-survey/2106325/
- In Michigan, 51% of medical marijuana pts admit driving high.
<https://www.cbsnews.com/news/driving-while-high-university-of-michigan-study-finds-more-than-half-of-michigan-medical-marijuana-users-admit/?fbclid=IwAR1rHVB9xxqQR3oEGwuB7lWEuluXBQTe9w0cjxypkQjrrXrB2YjfUCJcaVo>



IS EDUCATION THE ANSWER

What works to prevent stoned driving? DUIC

- $\frac{3}{4}$ MJ users said they'd drive high even after shown risks.
- They believed effect minimal & could compensate for being high.
- So educating re risk does not work.
- Threat of punishment does work.
- Random roadside testing w/ arrests better deterrent than education campaigns.

- Hartman et al. Cannabis Effects on Driving Skills.
Clin Chem. 2013 Mar
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3836260/#R73>



APPARENTLY NOT.

More studies

- Women in methadone treatment who use marijuana are 82% more likely to relapse to heroin & other illicit opioids.

- Association between cannabis use and methadone maintenance treatment outcomes *Biology of Sex Differences* 2017



- Patients in opioid treatment who used MJ are more likely to drop out of treatment.
- All users – 39% higher dropout rate.
- Heavy users - 48 % higher dropout rate.

- The impact of cannabis use on patients enrolled in opioid agonist therapy in Ontario, Canada *PLoS One*. 2017 Nov

FLYING THE “MARIJUANA” FRIENDLY SKIES

Pilots - 24 Hours After Smoking One Joint

- More difficulty in aligning with and landing on runway
- Lateral deviation twice pre-marijuana test.
- One pilot landed off the runway entirely
- Pilots not aware of any impairment. They all thought they were fine.

• Carry-over effects of marijuana intoxication on aircraft pilot performance: a preliminary report. *Am J Psychiatry* 1985; Yesavage JA, Leirer VO, Denari M, Hollister LE. 142:1325-9.



IT MUST BE HARD TO FIND – DRUG FREE – EMPLOYEES?

Workplace problems -- *JAMA* 1990

- Postal Employees positive for MJ in pre-employment screen.
- Not using at work.
- Compared to non-users:
 - Accidents – 55% higher
 - Discipline – 55% higher
 - Turnover -- 56% higher
 - Sick/Missed -- 75% higher
 - Injuries – 85% higher

• C. Zerling et al. "The efficacy of preemployment drug screening for marijuana and cocaine in predicting employment outcome" (Nov. 1990) *Journal of the American Medical Association*



DEFINITELY NOT RECOMMENDED DURING PREGNANCY

Effect of maternal marijuana use on the next generation's drug use

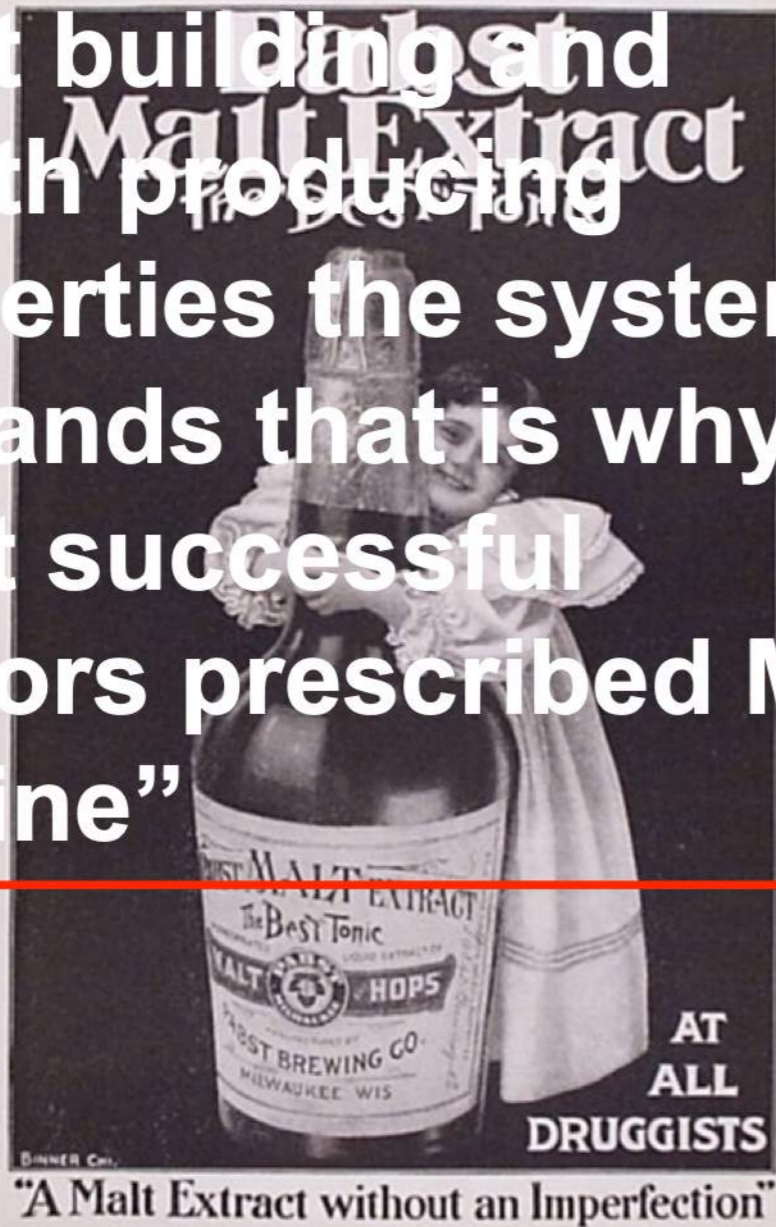
- Fetuses of women who use marijuana during pregnancy have more mu opioid receptor activity in the amygdala (reward pathway). Alcohol and tobacco did not do this.

Wang et al. Discrete opioid gene expression impairment in the human fetal brain associated with maternal marijuana use. Pharmacogenomics J. 2006 Jul-Aug



Medical Alcohol

“For it contains the great building and Health producing properties the system demands that is why the most successful doctors prescribed Malt-Nutrine”



Blatz Malt Extract
The Best Tonic

AT ALL DRUGGISTS

“A Malt Extract without an Imperfection”

ANHEUSER-BUSCH MILWAUKEE WIS

How Mother and Baby “Picked Up”

A case of Blatz Beer in your home means much to the young mother, and obviously baby participates in its benefits.

The malt in the beer supplies nourishing qualities that are essential at this time and the hops act as an appetizing, stimulating tonic.



Main 2400



BLATZ

MILWAUKEE

Always the same good old *Blatz*



Physicians Advise

convalescents and all who need Strength and Health to take the ideal Food Drink,

ANHEUSER-BUSCH'S

Malt-Nutrine

For it contains the great building and health producing properties the system demands. That's why the most successful doctors prescribe Malt-Nutrine in their practice—that's why their patients recover so quickly and so surely.

Malt-Nutrine is the perfect, predigested food in liquid form. Sold by all druggists and grocers.

Prepared by
Anheuser-Busch Brewing Ass'n
St. Louis, U. S. A.

*Is it always illegal
to KILL a woman?*



PITNEY-BOWES

Postage Meter

If your husband ever finds out

you're not "store-testing" for fresher coffee...

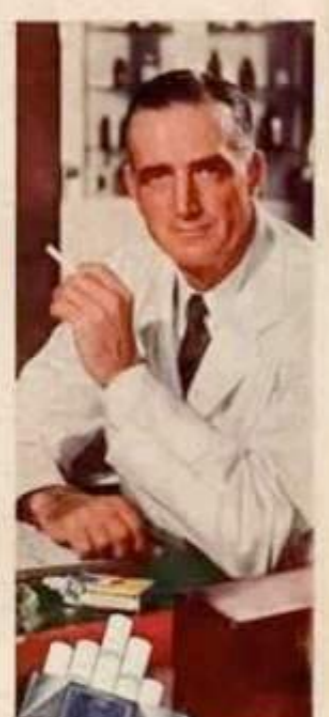


...if he discovers you're still taking chances on getting flat, stale coffee ... use be unto you! For today there's a sure and certain way to test for freshness before you buy



A GIFT OF BLISS
My delight—the spirit of it
be shared in the land. A gift
that spirit, and brings glad-
ness, both great and small.
Such a gift, my friends, is life.
Santa Claus

According to repeated nationwide surveys,
**More Doctors
Smoke CAMELS
than any other
cigarette!**



Doctors in every branch of medicine were asked, "What cigarette do you smoke?" The brand named most was Camel!

You'll enjoy Camels for the same reason so many doctors enjoy them. Camels have that soft, velvety pack, ultra-pure, and a flavor unmatched by any other cigarette. Make this available now. Smoke only Camels for 30 days and you'll know well Camels prove your taste. How well they will live through your smoky smoke. You can't have a cigarette that's better.



Why we have the youngest customers in the business

The young ones are 12 months old... and he isn't our youngest customer by any means.

**For a better start in life
start COLA earlier**



Medical Tobacco

Viceroy
FILTER
the Smoke!

As your Dentist,
I would recommend
VICEROYS

Dr. Batty's

For Your Health
ASTHMA CIGARETTES
SINCE 1902

For the temporary relief of
paroxysms of asthma

EFFECTIVELY TREATS:
ASTHMA, HAY FEVER, FOUL BREATH
ALL DISEASES OF THE THROAT,
HEAD COLDS, CANKER SORES
BRONCHIAL IRRITATIONS

NOT RECOMMENDED FOR CHILDREN UNDER 6.

According to repeated nationwide surveys,

**More Doctors
Smoke **CAMELS**
than any other
cigarette!**

THE DOCTORS' CHOICE IS AMERICA'S CHOICE!

For 30 days, test Camels in your "Pillbox" (1 for Throat, 2 for Taste)

**NOW...10 Months Scientific
Evidence For Chesterfield**

**MUCH Milder
CHESTERFIELD
IS BEST FOR YOU**

First and Only Premium
Quality Cigarette in Both Regular
and King-Size

CONTAINS TOBACCO OF BETTER QUALITY AND HIGHER
PRICE THAN ANY OTHER KING-SIZE CIGARETTE

**NOW...Scientific Evidence
on Effects of Smoking!**

**MUCH Milder
CHESTERFIELD
IS BEST FOR YOU**

“Not recommended for
Children under 6”

"Marijuana is medicine"

States That Have Legalized Medical Marijuana



76% of Doctors Approve of Medical Cannabis Use

-New England Journal of Medicine



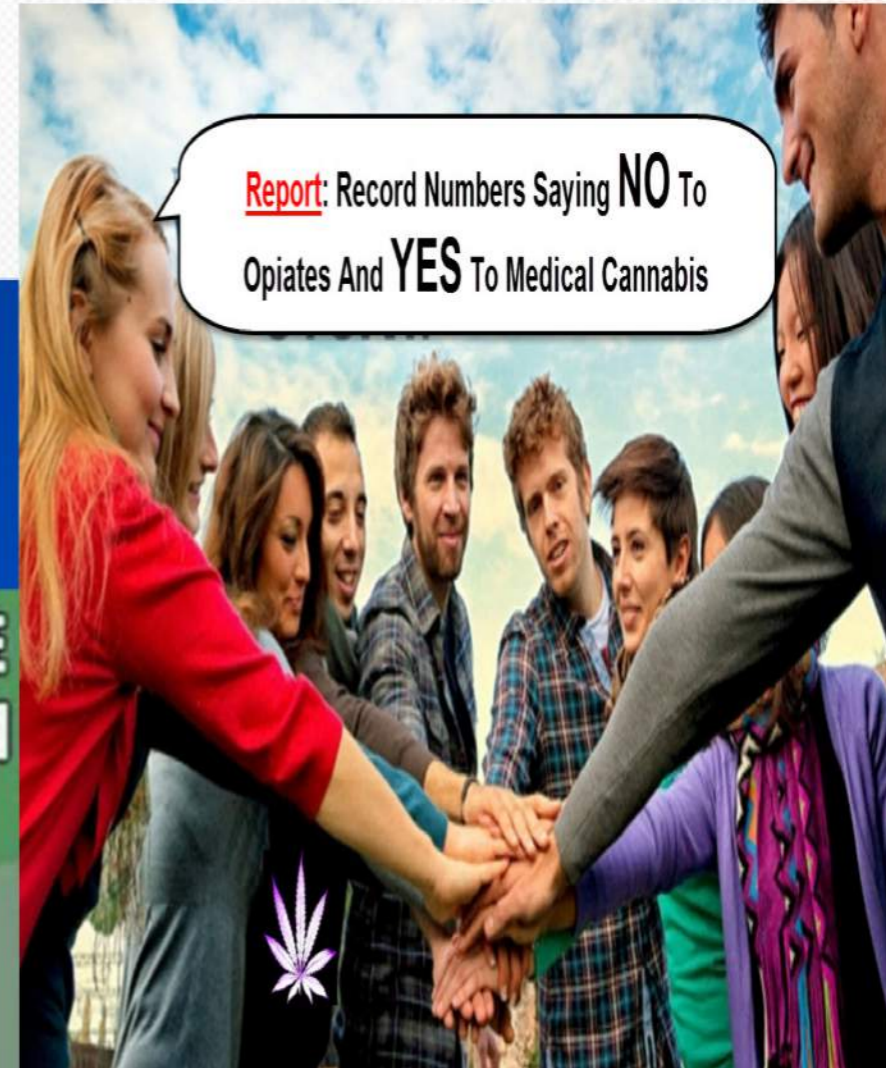
IF LAUGHTER IS THE BEST MEDICINE AND MARIJUANA MAKES YOU LAUGH



IS MARIJUANA THE BEST MEDICINE?



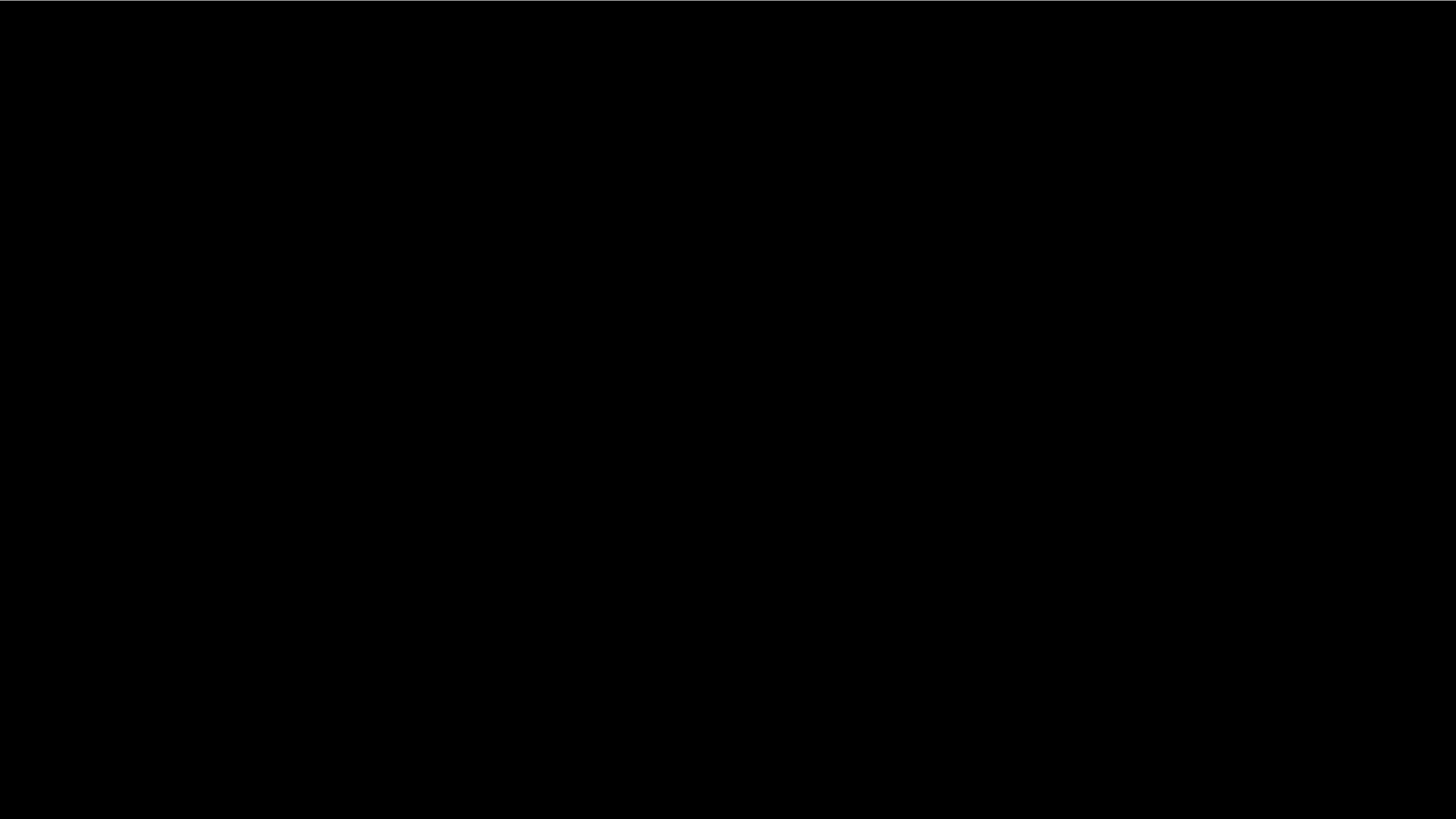
DR. SANJAY GUPTA REPORTS



MEDICAL MARIJUANA DOCTOR

“Its cool to smoke marijuana”





THE MARIJUANA PARADOX

THE MYTHS EXPOSED

Myth #1: Jails & prisons are filled with MJ users. Legalizing pot would end mass incarceration.

- Who is in prison?
- Violent crime – 50%
- Property crime – 16%
- Drug crime – 18%
- Public order crime – 15%
- If we released all drug criminals, we'd still have mass incarceration.

<https://www.bjs.gov/content/pub/pdf/p17.pdf>



April 2019, NCJ 252156

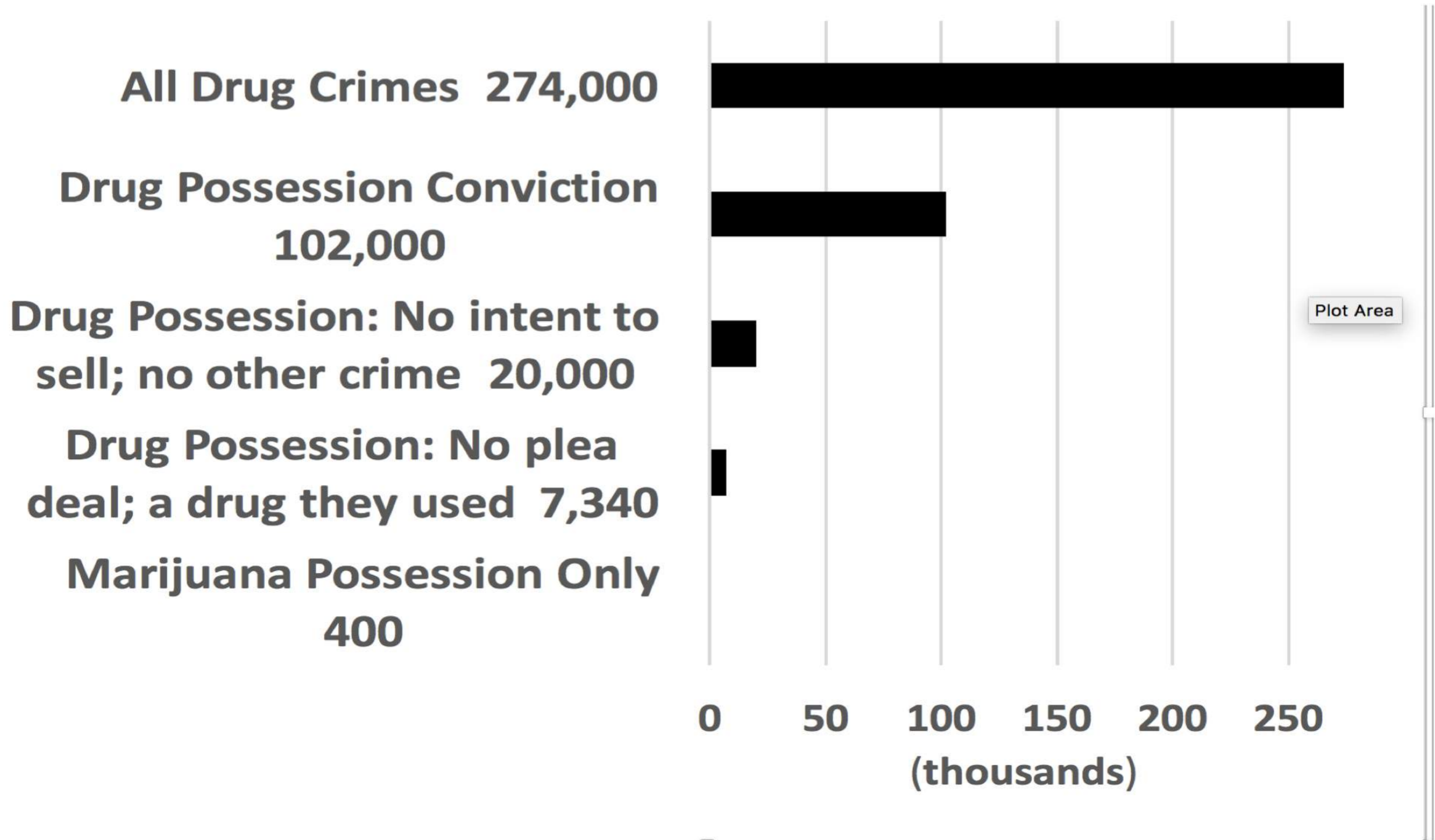
U.S. Department of Justice
Office of Justice Programs
Bureau of Justice Statistics

Prisoners in 2017

Who are the drug criminals in prison?

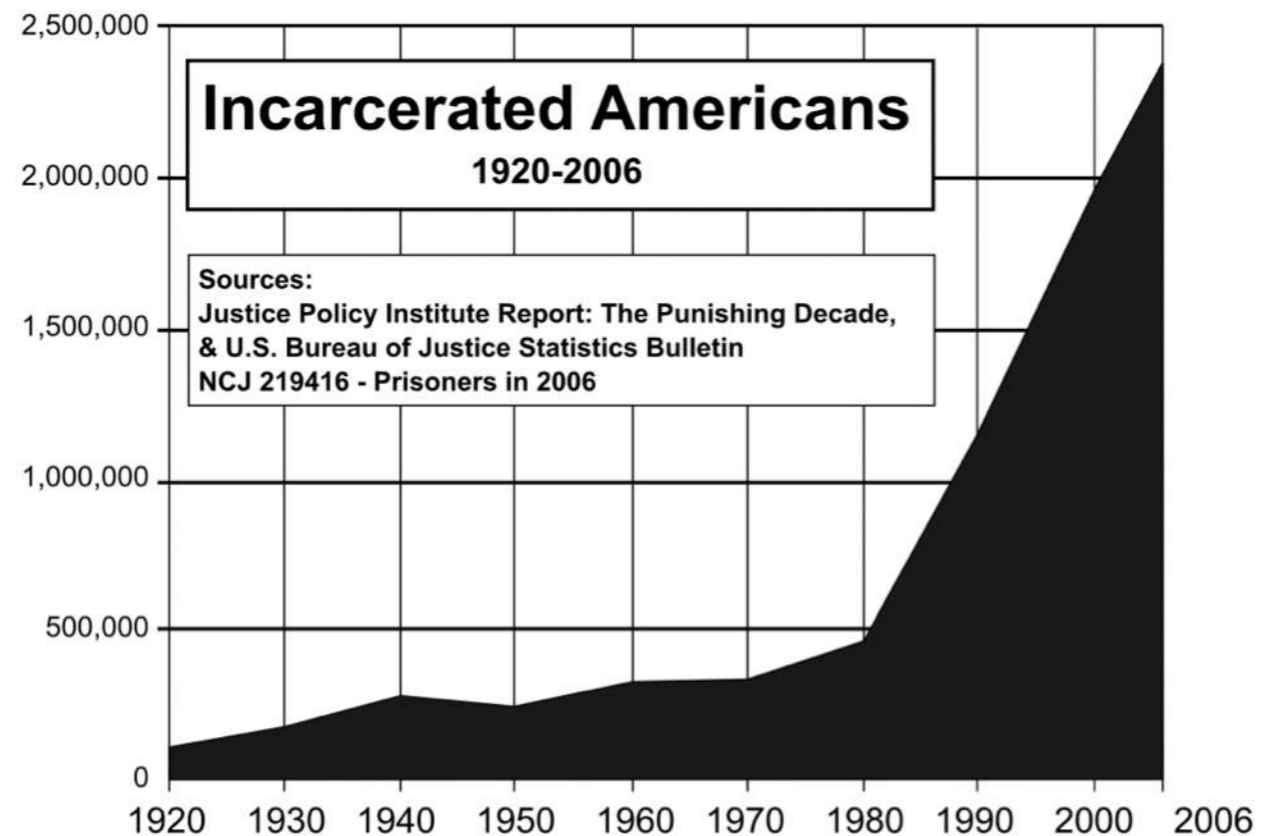
- 80 - 90% -- drug sales/trafficking
 - 95% hard drugs – cocaine, meth, opioids including heroin
- 10 - 20% -- drug possession & another type of crime (assault, burglary, DUI)
- 2-3% -- drug possession alone.
 - So <1% of all prison inmates
 - MJ possession – 5-7% of that

Caulkins & Sevigny 2005: Estimated number of inmates in prison for:



So what did cause mass incarceration?

- Reagan-era laws for all crime – violent, property & drug.
 - Three strikes
 - Eliminate parole
 - Longer sentences
 - Mandatory minimums
- As a result, incarceration soared for all types of crime.



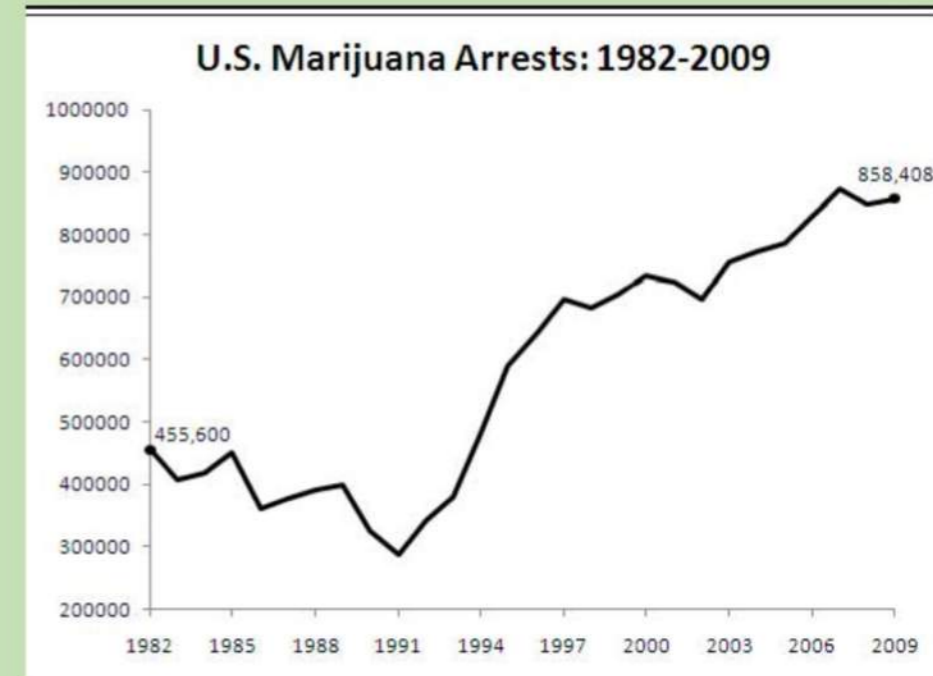
**Myth #2: Police waste time
& money pursuing MJ users.
They should spend it on
serious crime.**

- No rock concert busts.
- No list of suspected marijuana users.
- No stake-outs to see if someone is smoking pot.
- Call with a tip and they'll laugh.
- Police don't look for possession.
- There is no war on users.



So why are there >1/2 million marijuana possession arrests every year?

- Most U.S. crime symptom of substance abuse.
- Arrestees 75% positive for illegal drugs;
- 50% for MJ. Half are current MJ users. Arrestee Drug Abuse Monitoring Program 2013 Annual Report
- Drug abusers carry drugs everywhere. Never plan on getting caught: do plan on getting high.
- So often carrying pot when arrested & searched.



Pot arrests are up;
not prosecutions.

Myth #3: The drug war is a war on drug users

- Nixon ran on law & order. To stop crime, had to stop heroin epidemic.
- Nixon Drug War: 2/3 money for treatment. 1/3 overseas traffickers
- Nixon: “tighten the noose around the necks of drug peddlers, and thereby loosen the noose around the necks of drug users.”
- 1st president to treat addiction as an illness. The Fix by Michael Massing
- Eliminated mandatory minimums for possession.
- Jerome Jaffe – expert in treatment – stop courts martial
- Opened methadone programs across the country.
- Called “War on Drugs” to mollify conservatives
- Success: overdoses & crime decreased in large cities.



Myth #4: For teens, pot is safer than alcohol.

- Not if schizophrenia runs in your family.
- Pot users risk dropping out & being less successful. Alcohol users risk car crashes.
- Which do parents want for their kids? Neither one.



Myth #5: Legalization will make it harder for teenagers to buy marijuana



Please, card my son.

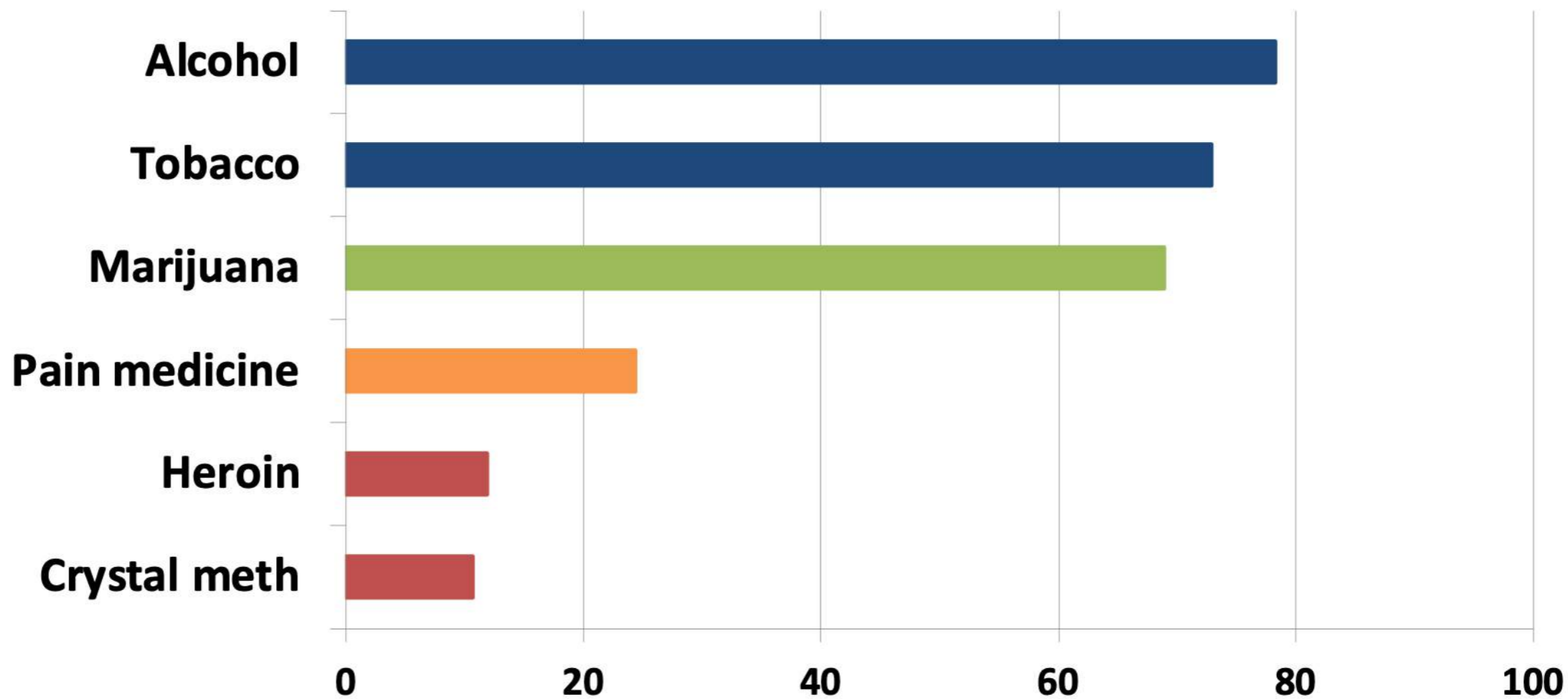
Regulate the sale of marijuana and help me keep it out of his hands.

RegulationWorks.org

PAID FOR BY MOMS AND DADS FOR MARIJUANA REGULATION



Percent of 10th graders who say drug is easy to obtain



Myth #6: If we legalize marijuana, drug dealers will no longer target our children.





WARNING TO PARENTS:



**How Big Tobacco
targets kids today**



CAMEL



TRIX ARE FOR KIDS ... & MARIJUANA TOO?

The MJ industry is targeting kids far more directly than Big Tobacco ever did



SHOPPING FOR “TREATS”

Colorado marijuana stores are not full of bags of green leafy weed.



IT REALLY LOOKS LIKE ... CANDY?



OR SODA POP ...



OR BREAKFAST ...



CANDY?



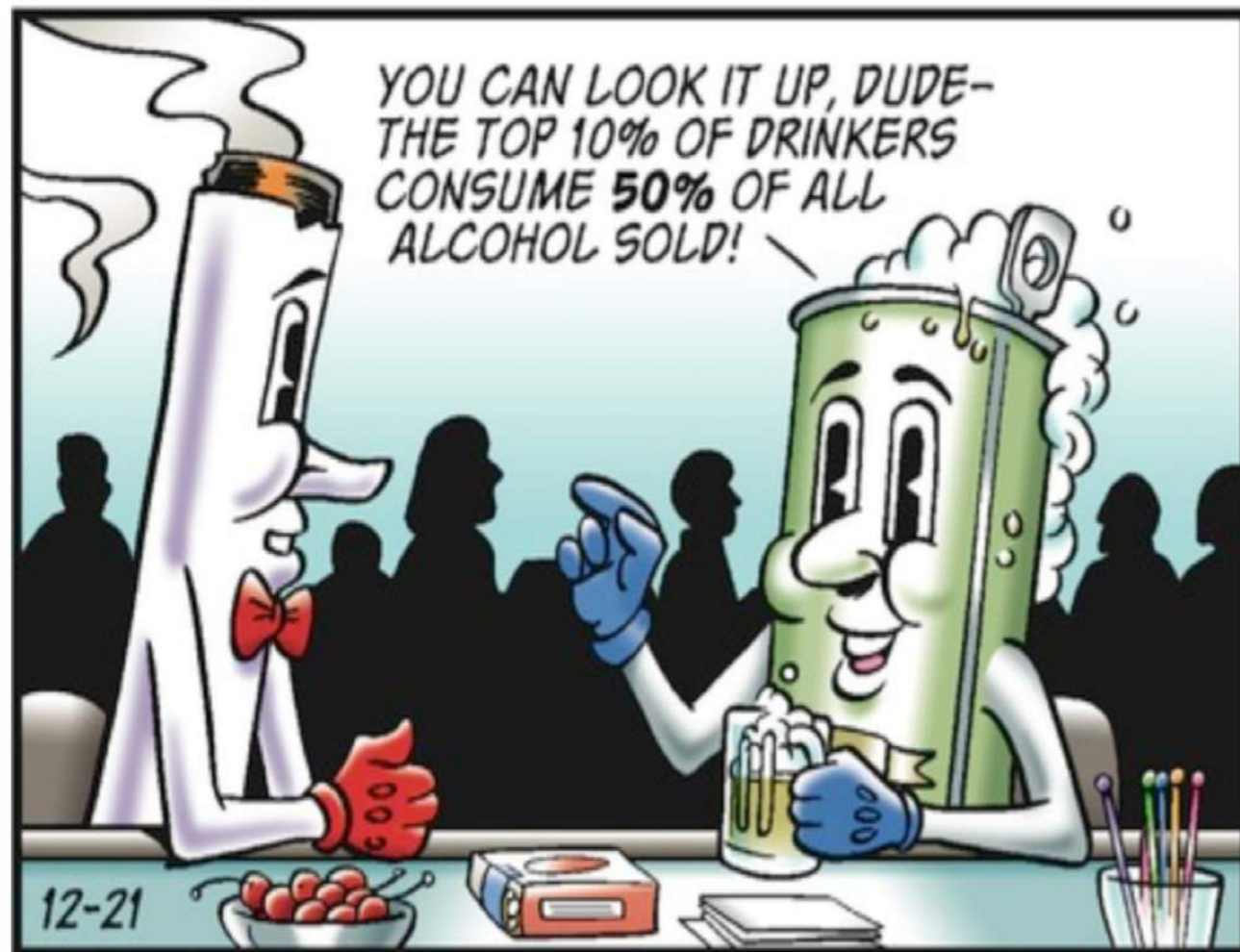
LET'S NOT FORGET THE BENEFITS OF VAPING – NOT!

**Vaporizers designed to look like pens,
can be used in class.**



80% OF SUBSTANCE ABUSERS STARTED BEFORE 16 YEARS OF

Why do the addictive drug industries all target teens?



But marijuana and tobacco have alcohol beat

Like alcohol & tobacco, MJ industry depends on addicted, daily users

Colorado Dept Public Health

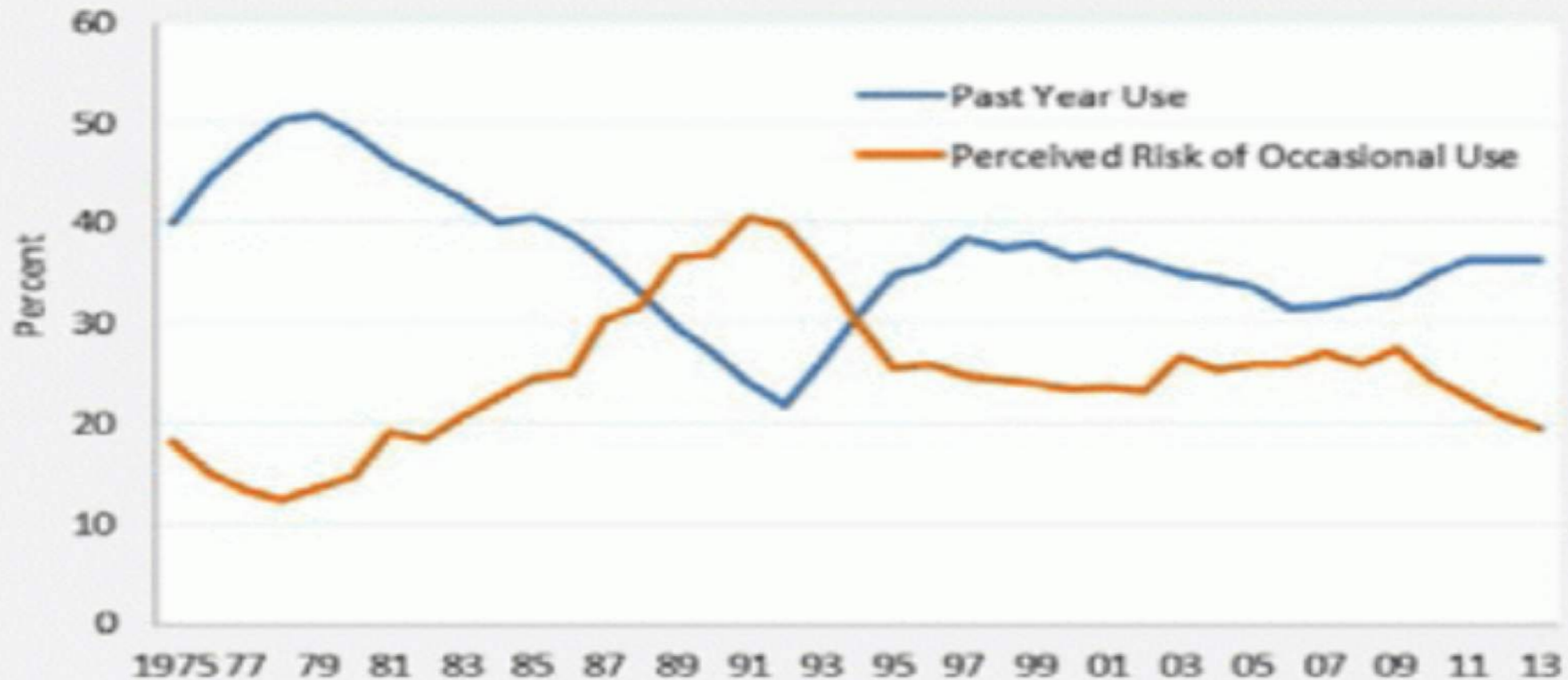
- Most MJ users occasional – consume 4% of all marijuana
- 2-3% of population uses MJ daily – consumes 87% of all marijuana
- Best way to create addicted users – get them started as teens.
 - Teen brain is more prone to addiction.
 - Adults users who started as teens use 3X as much MJ.
- **Marijuana, alcohol & tobacco industry need teenage use to survive.**

Myth #7: Teens will use no matter what

- People who want to use drugs will find a way.
- Nothing we say or do will make a difference.

PERCEPTION OF RISK CAN LOWER RISK TAKING

Marijuana Perceived Risk vs. Past Year Use by 12th graders, 1975-2013



Source: University of Michigan, 2013 Monitoring the Future Study

AND PARENTS CAN MAKE A DIFFERENCE

Parent Movement Decreased Use by 80%

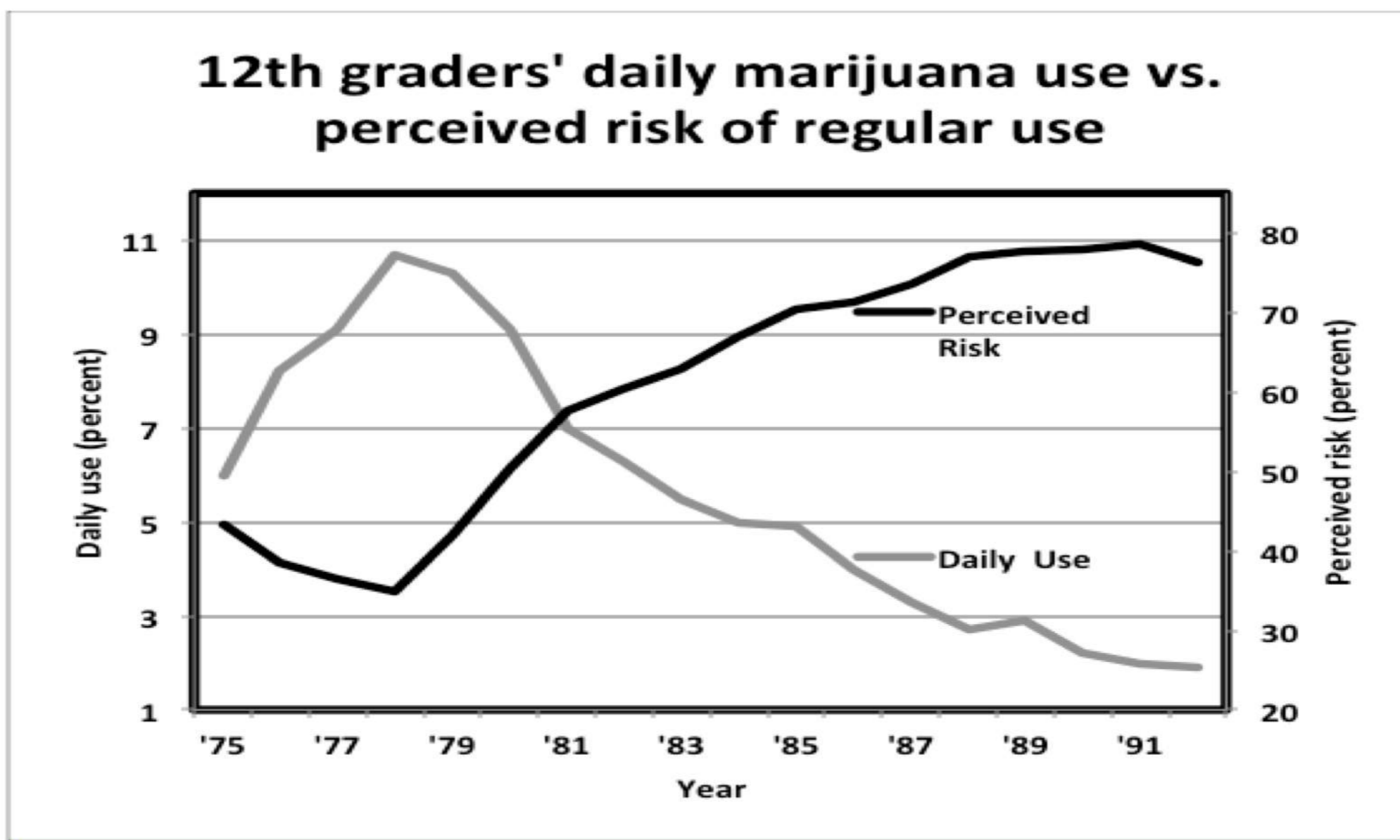
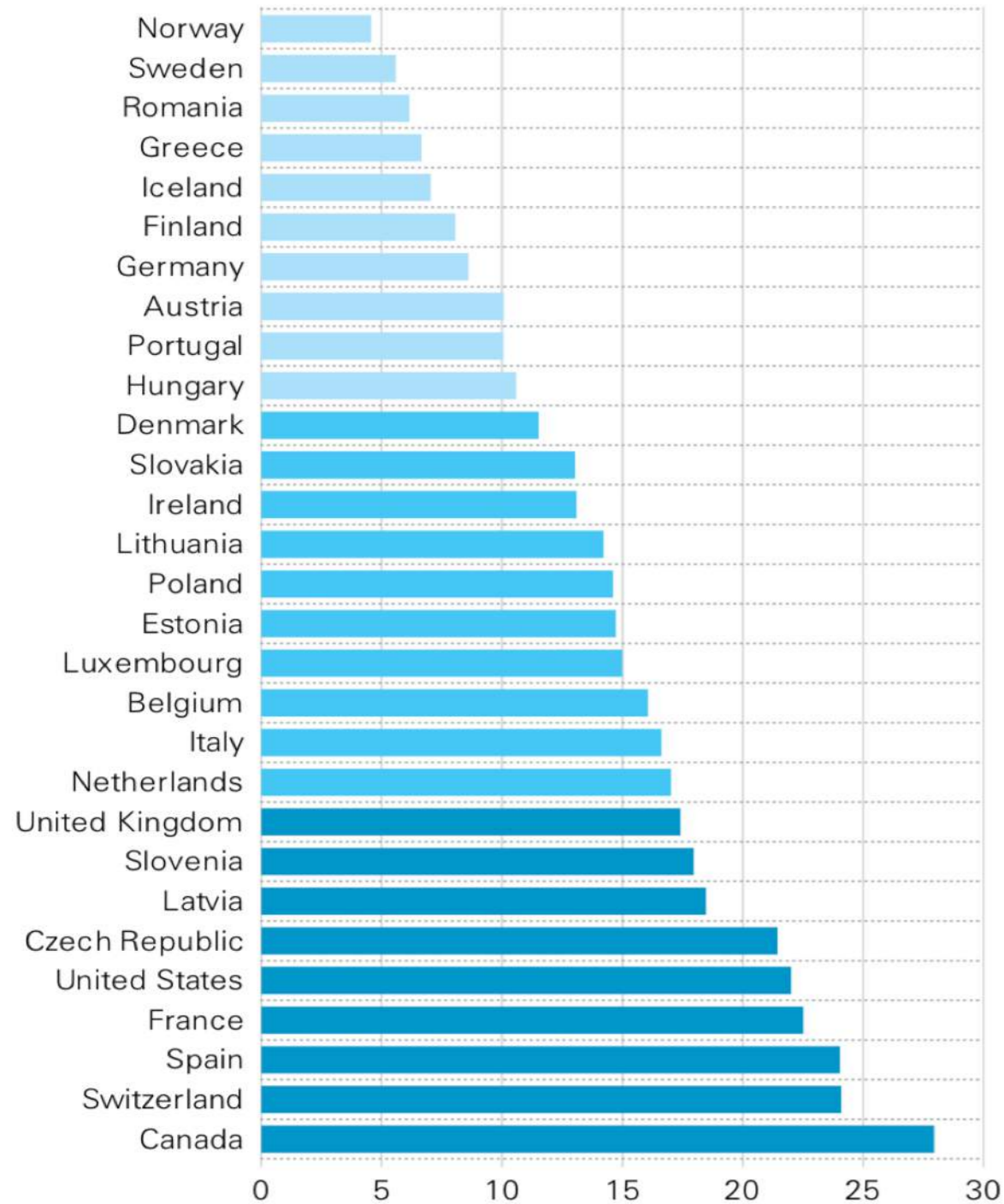


Figure 1-1. Data from Monitoring the Future 2013⁹

Figure 4.2d Cannabis

% of children aged 11, 13 and 15 who report having used cannabis in the last 12 months



In Sweden & Norway, teenage marijuana use is 1/5 the rate in Canada & the U.S.

How did they do this?

Child well-being in rich countries. UNICEF 2013

KNOWLEDGE CAN LEAD PEOPLE TO SAFETY

Teenage use is almost entirely preventable

(Adult use, too)

- **1) Keep it strictly illegal – no industry marketing or advertising.**
- **2) Stop telling people how wonderful it is.**
- **3) Start talking about the harm it causes.**

- **Two Conclusions:**
 - **1) Teenagers make good decisions – if they get good information.**
 - **2) There is no way to legalize a drug for adults without increasing teenage use.**

Myth #8: MJ will be tax windfall for states

26,301 views | Sep 16, 2015, 09:54pm

Colorado Now Reaping More Tax Revenue From Pot Than From Alcohol

POLITICS 07/19/2017 03:19 pm ET | Updated Jul 19, 2017

Colorado's Marijuana Tax Revenue Exceeds Half A Billion Dollars



Here's How Much Money States Are Raking In From Legal Marijuana Sales

News articles about tax revenue never mention the costs.

- CO expects to make \$134 mil in taxes, & spend \$130 mil on youth prevention, addiction treatment, anti-stoned driving campaigns, regulating marijuana stores, etc.
- Denver Post Apr 9, 2014



All the tax revenue is spent cleaning up problems marijuana causes.

- Colorado Governor Hickenlooper on CNN: “I tell other governors that we are not making any extra revenue from pot...”



Economic and Social Costs of Legalized Marijuana

Centennial Institute
November 15, 2018

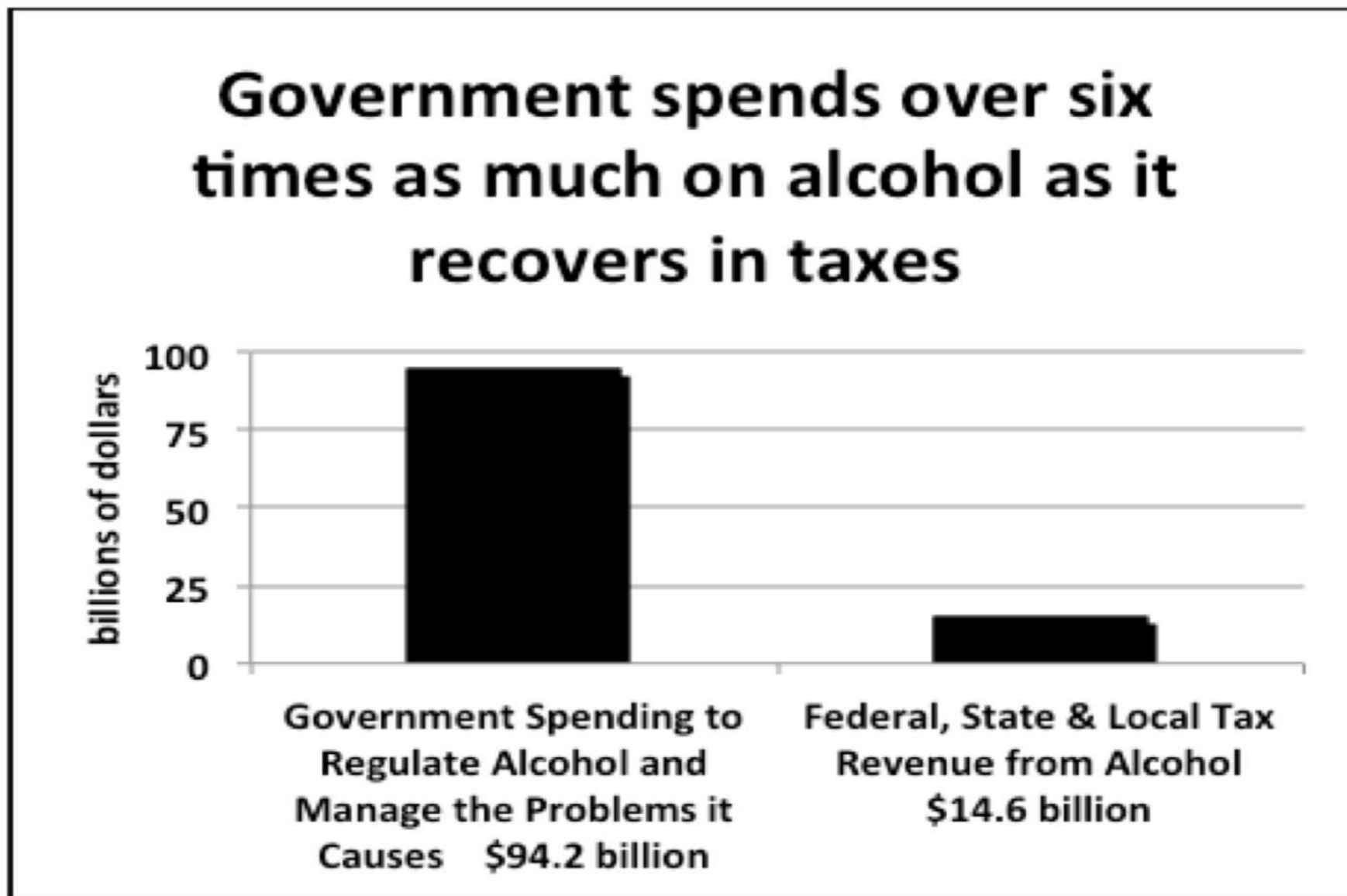


Marijuana costs more than it brings in

“For every dollar gained in tax revenue, Coloradans spent approximately \$4.50 to mitigate the effects of legalization.”

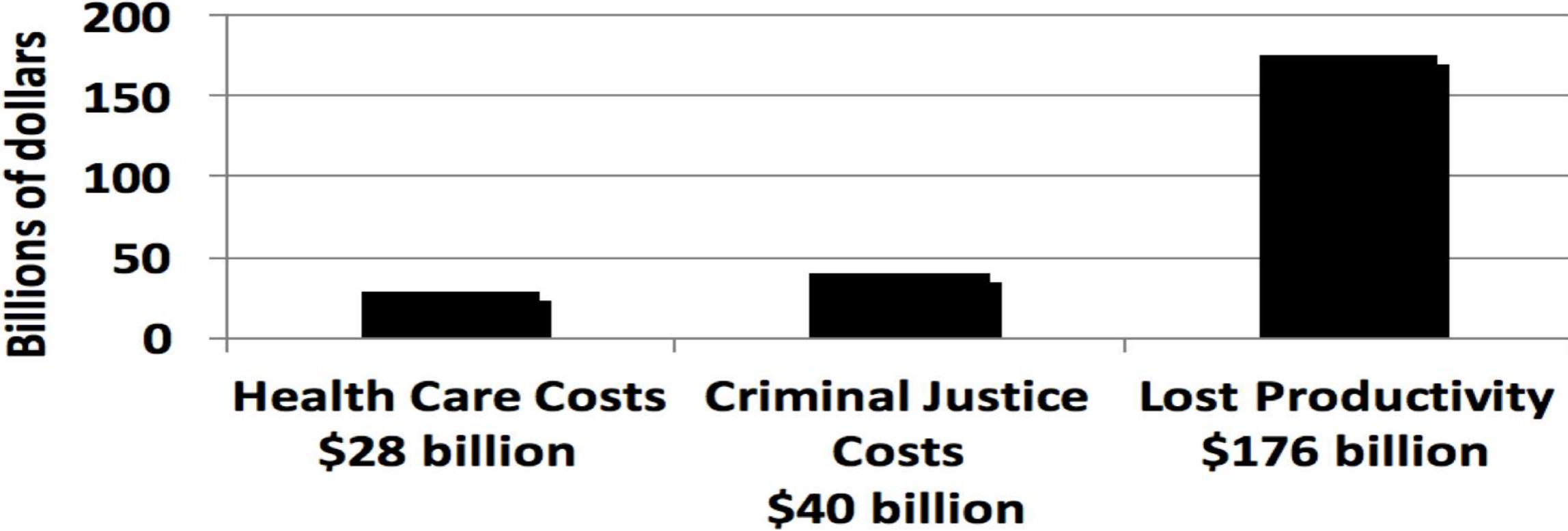
THE COSTS ARE ... HUGE

Alcohol is a net drain on state budgets



The cost of substance abuse is mostly unseen.

Economic impact of substance abuse on the United States in 1992



Myth #9: Legalization eliminates cartels & black market

NEWS

Cartels cashing in on Colorado's pot industry

Illegal pot busts are booming across Colorado's forests. Are cartels to blame?



By David O. Williams As Originally Reported by Colorado Politics
Sunday, April 22, 2018 5:03 AM Updated: Sunday, April 22, 2018 1:46 PM

Select Language | ▼



POLITICS U.S. NEWS BUSINESS WORLD TECH & MEDIA THINK SPORTS

Foreign cartels embrace home-grown marijuana in pot-legal states

Foreign gangs are finding that black-market marijuana is profitable even in states that have legalized cannabis.



World

Why Colorado's black market for marijuana is booming 4 years after legalization



Marijuana grown in Colorado, the land of legal weed, is being smuggled out to states where it is still illegal



Briar Stewart · CBC News · Posted: May 28, 2018 4:00 AM ET | Last Updated: May 28, 2018



California's Illegal Weed Industry Is Doing Better Than Ever

Those in the weed business have discovered that the black market is still more profitable in many ways than the newly legal industry.



POLITICS

California proposes slashing pot taxes to help regulated industry compete with black market

PUBLISHED MON, JAN 28 2019 • 7:18 PM EST | UPDATED TUE, JAN 29 2019 • 9:18 AM EST

“If we don’t do something this year, we’re at risk of putting all legal cannabis out of business. The black market can operate at much lower cost with no oversight.” -- California Assemblyman Phil Ting *L.A. Times* 5-16-19

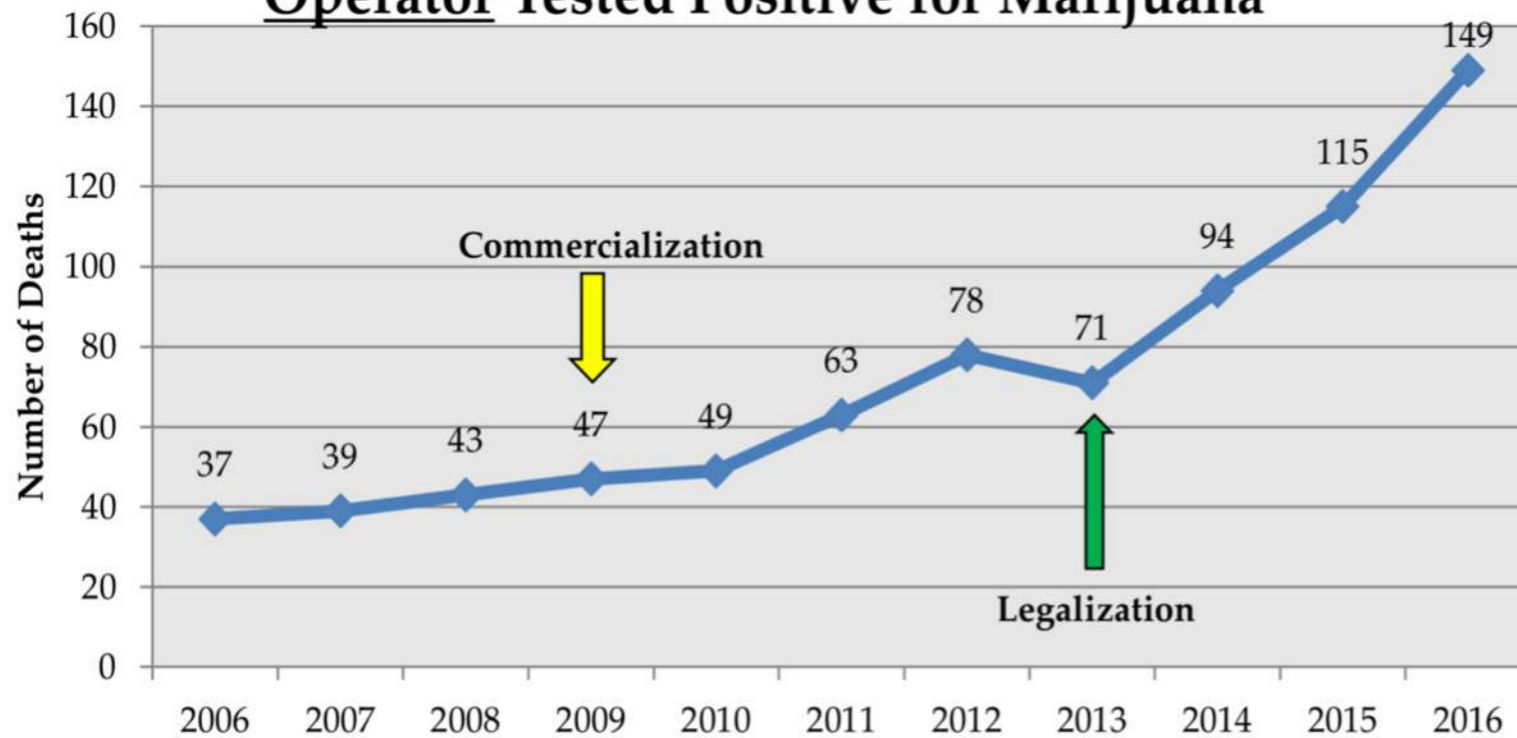


Myth #10: Prohibition of alcohol failed

- **Decreased alcohol consumption**
 - **Decreased cirrhosis.**
 - **Decreased disorderly conduct.**
 - **Halted increasing homicides.**
-
- Actually, Prohibition was a success. *New York Times* Oct 16, 1989
 - Okrent, Daniel. *Last Call: The rise and fall of Prohibition*. 2010

#11: A harmless drug that kills nobody.

Traffic Deaths Related to Marijuana when an Operator Tested Positive for Marijuana

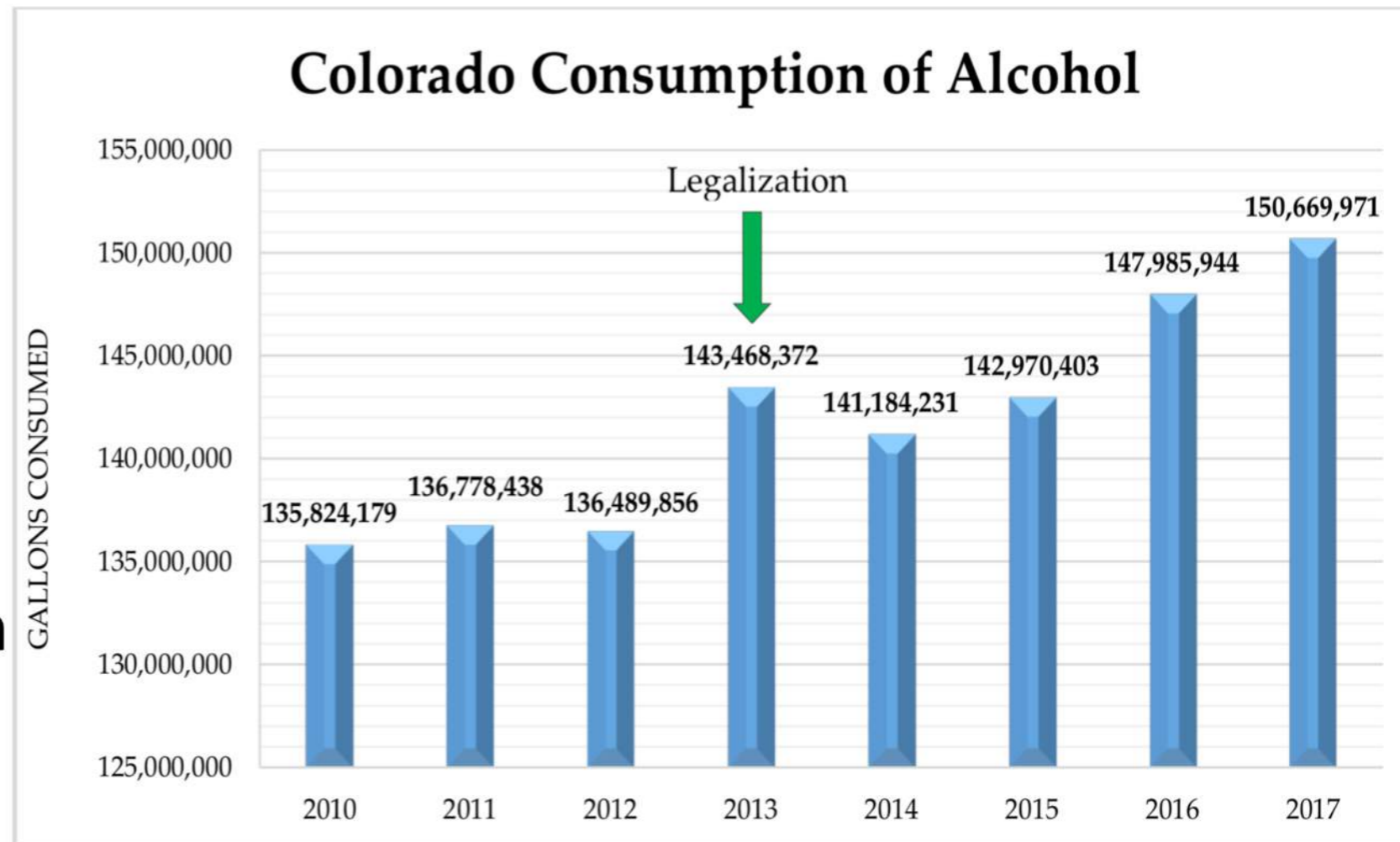


SOURCE: National Highway Traffic Safety Administration, Fatality Analysis Reporting System (FARS), 2006-2011 and Colorado Department of Transportation 2012-2016

Myth #12 People will use MJ instead of alcohol.

- People who abuse one drug use more of others, not less
- Alcohol sales in Colorado increased after MJ legalized.
- Hospital visits due to alcohol abuse & drug overdoses increased in CO after MJ legalized.

according to a study by UCSF researchers. Dr. Gregory Marcus.



SOURCE: Colorado Department of Revenue, Colorado Liquor Excise Tax

ANOTHER CASE FOR PERCEPTION OF RISK

- ## Social acceptability

- Ten percent of low risk teens (non-smokers, no drug-using friends) say they would try pot if it were legal. Palamar J et al. Correlates of intentions to use cannabis among US high school seniors in the case of cannabis legalization. Int J Drug Policy. 2014 May;25(3):424-35.



RISKY BUSINESS

Three factors increase teenage use

*(from **Clearing the Haze** by Thurstone & Tatum)*

- Belief that the drug is safe
 - Social acceptability of the drug
 - Availability of the drug
-
- **First, perception of safety.**

THE FACTS

Myth #13: CO & WA are success stories

- CO now ranks at or near the top in teenage, college age & adult use.
- MJ tourists fill homeless shelters & camp along streets. Denver visitor bureau says losing business. In Seattle, homelessness is election issue.
- MJ-related visits to ER & calls to poison control doubled.
- Property crime up 25% in Seattle & 40% in Denver.
- Violent crime up in Colorado, Oregon & Alaska.
- Adult use in CO almost twice the national avg.
- Black use 50% higher than white use.
- Traffic fatalities MJ-driver tripled.



“MEDICAL” MJ LAWS LOOK LIKE LEGALIZATION TO THE PUBLIC

Legalization costs the state economy



- Medical – Schizophrenia.
Drug treatment. Car accidents.
- Criminal Justice – Black market.
More underage use & drugged driving.
- Lost productivity – the largest cost.



Partnership

for A Healthy Iowa



IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY



Iowa Behavioral Health Association



A COMMUNITY-BASED ORGANIZATION
SERVING YOUTH AND FAMILIES SINCE 1976



Iowa Association of
Business and Industry



MAYO
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G**



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