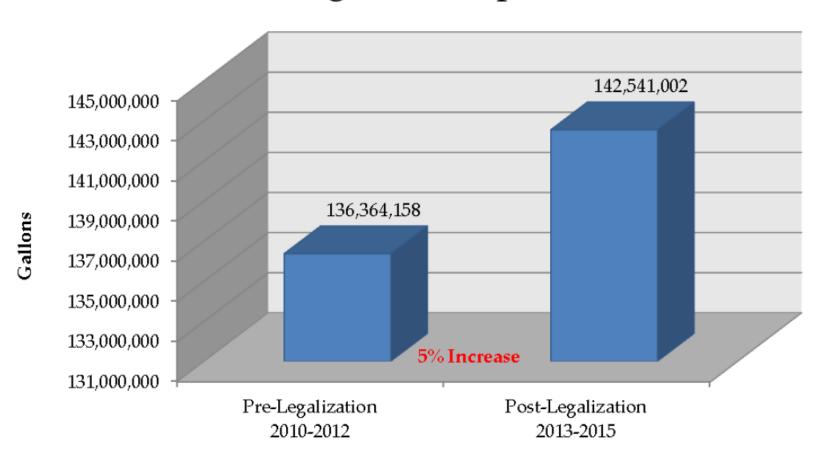


Marijuana vs. Alcohol

- Marijuana decreases use of alcohol and opioid painkillers?
- Effects on Children
- Emergency departments
- Hospitalizations
- Effect on motor vehicle drivers

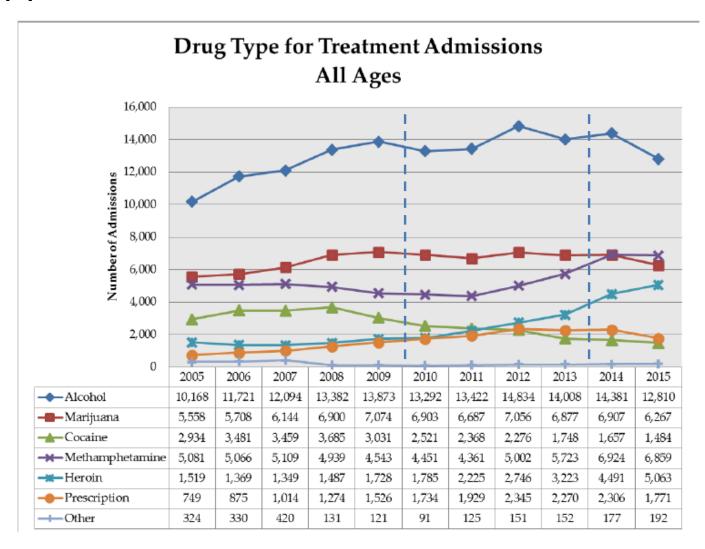
Cannabis Legalization Has Not Decreased Alcohol Consumption

Colorado Average Consumption of Alcohol

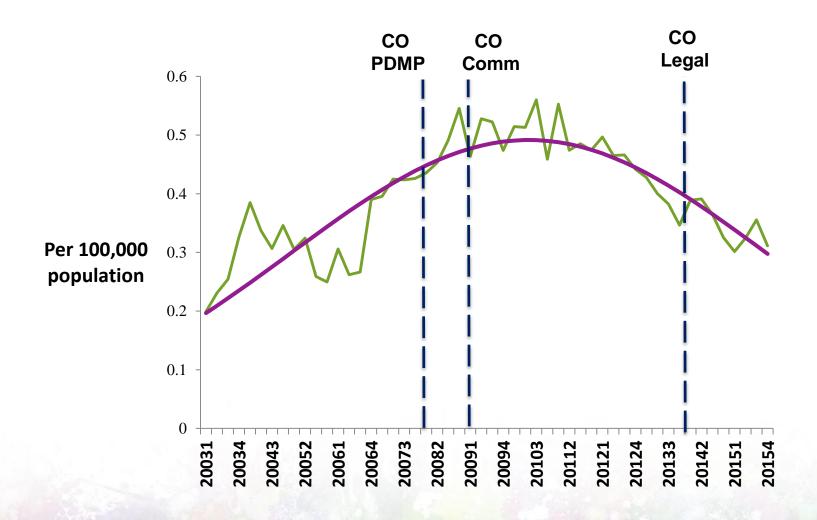


SOURCE: Colorado Department of Revenue, Colorado Liquor Excise Tax

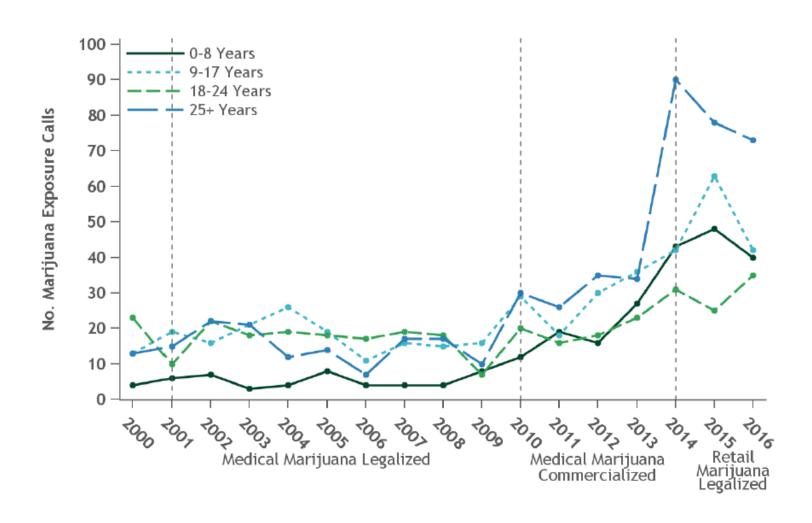
No Apparent Effect on Treatment of Addiction



RADARS Poison Center Program All Opioid Painkillers, Intentional Abuse

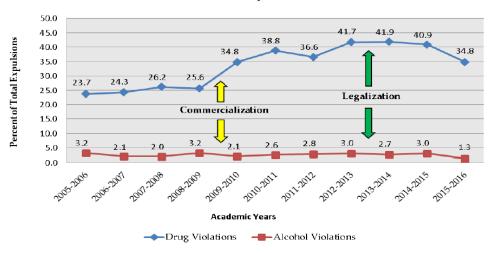


Number of Marijuana Exposure Calls to Poison Center, Colorado, 2000-2016



The Teenage Brain

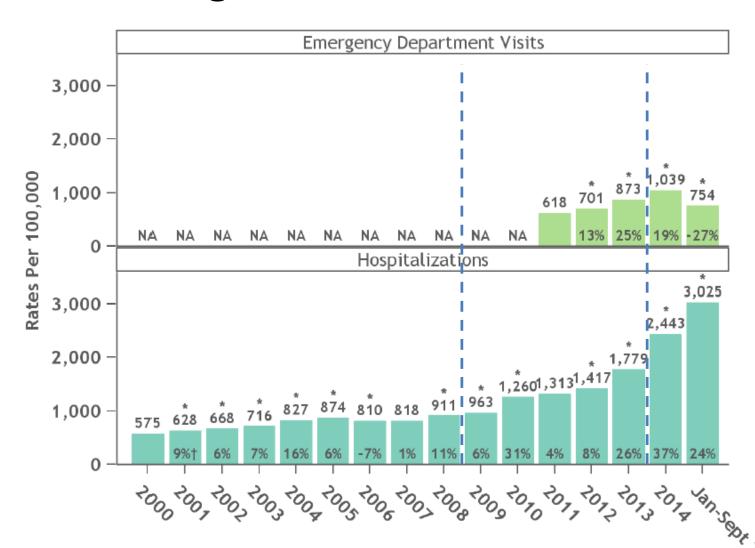
Percent of Total Expulsions in Colorado



SOURCE: Colorado Department of Education, 10-Year Trend Data : State Suspension and Expulsion Incident Rates and Reasons

- ❖ In school year 2015/2016, 58 percent of total expulsions were for marijuana violations.
- Marijuana affects development of the adolescent brain, probably until age 25
- National Drug Abuse and Health Survey indicate that use may be increasing among Colorado youth.

Hospitalization and ED Visits with MJ-related Billing Codes



Emergency Department Visits

- In general, MJ patients are less violent than alcohol patients.
- But, when they use a lot
 - We found SUBSTANTIAL evidence that THC intoxication can cause acute psychotic symptoms, which are worse with higher doses.26-31

Denver coroner: Man fell to death after eating marijuana cookies

By John Ingold
The Denver Post

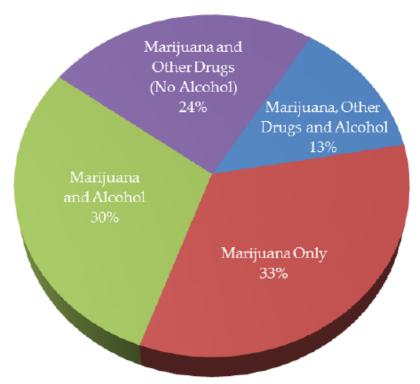
A college student jumped to his death from a hotel balcony after eating marijuana-infused cookies... first time authorities have publically linked a death to marijuana...

257 COMMENTS



- Naïve user
- Cookie = multiple "doses" of marijuana
- Content of tetrahydrocannabinol (THC) in product varies several fold.

Drugs involved in Fatal Motor Vehicle Accidents



*Toxicology results for all substances present in individuals who tested positive for marijuana

SOURCE: National Highway Traffic Safety Administration, Fatality Analysis Reporting System (FARS), 2006-2011 and Colorado Department of Transportation 2012-2015

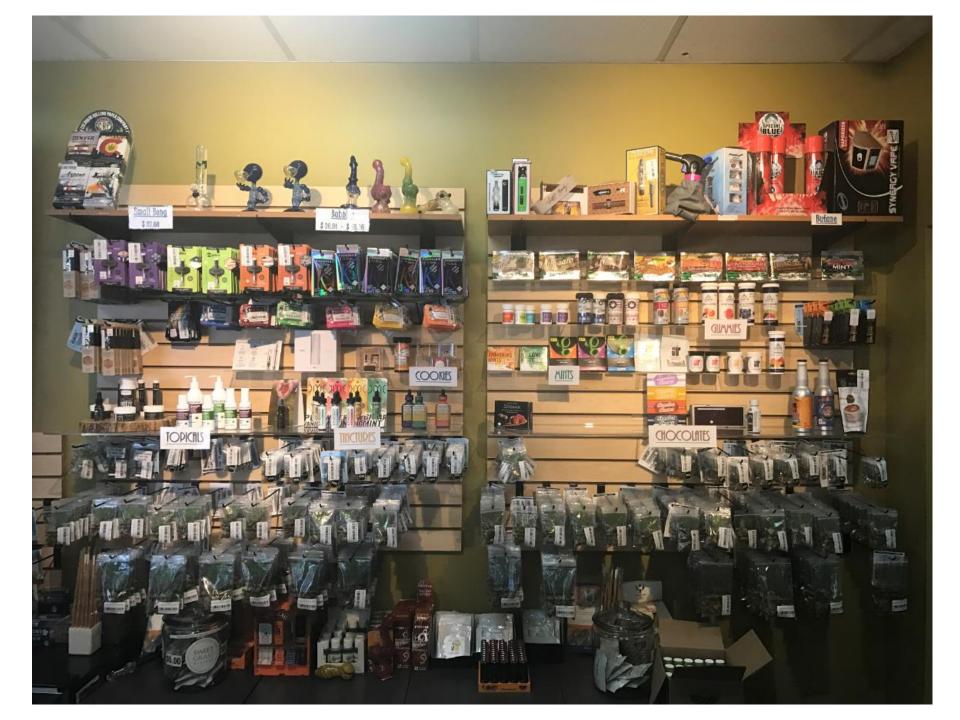
Effect of Marijuana and Alcohol on Driving

- We found SUBSTANTIAL evidence that recent marijuana use by a driver increases their risk of motor vehicle crash.7-11(Revised*)
- We found SUBSTANTIAL evidence that the combined use of marijuana and alcohol increases impairment and motor vehicle crash risk more than use of either substance alone.12,14,15,38-42

Long Term Health Impacts

Cancer

- We found SUBSTANTIAL evidence that daily or near-daily marijuana smoking is associated with pre-malignant lesions in the airway.14-16
- We found MIXED evidence for whether or not cumulative levels of marijuana smoking greater than the equivalent of one joint per day for 10 years are associated with lung cancer.17-21 (Revised*)



Summary

- Marijuana is different than alcohol. Whether better or worse is in the eye of the beholder.
- The damage to developing brains is real and substantial resources are needed to combat underage use.
- Maintain existing limits. Evidence shows clearly that increased immediate availability leads to increased injury.