



# SBI for marijuana use in Colorado

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**SBIRT Colorado** 



## **Acknowledgments**

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## **Colorado - USA**





### Marijuana in Colorado

- In 2000: voters approved medical marijuana
  - Implemented in 2001
- In 2012: voters approved recreational marijuana
  - Implemented in 2013





### Internet search: 'Benefits' of marijuana

- "Stops cancer from spreading"
- "Controls epileptic seizures"
- "Prevents blindness from glaucoma"
- "Decreases insulin levels in diabetes"
- "Slows the progression of Alzheimer's disease"
- "Treats inflammatory bowel disease"
- "Treats depression"



www.philly.com/10\_health\_benefits\_of\_marijuana



### **SBIRT Colorado Data Collection**

- What % of patients screened in SBIRT healthcare settings are using marijuana?
  - 35.3% lifetime use (n=3529)
  - 14.7% past 90 days (n=1470)
  - 10.3% daily or weekly use
- Of those using marijuana, what % has a state-issued medical marijuana card? 308 (3.1%)
  - 8.6% of lifetime users have a card
  - 19.1% of past 90-day users have a card



### Variance among past 90-day users

- Cardholders
  - 60.5% daily use
  - Average use: 19.21 days in past 30

- Non-Cardholders
  - 38.7% daily use
  - Average use: 12.91 days in past 30

Cardholders **used significantly more days** in past 30 than non-cardholders, t(435.73)=7.92, p<.001



### **Risk level among past 90-day users**

### Cardholders

- Moderate risk: 90%
- Moderate-high to High risk: 3.2%
- Significantly more likely than Non-Cardholders to screen positive for marijuana (c<sup>2</sup>(1, N = 1470) = 38.64, p < .001)</li>

#### Non-Cardholders

- Moderate risk: 69.6%
- Moderate-high to High risk: 7.1%
- Significantly more likely than Cardholders to screen at Moderate-high to High risk (c<sup>2</sup>(1, N = 1470) = 5.91, p < .05)</li>

### **Co-occurrence with other substance use**

- % of past-90 day marijuana users who screened positive for:
  - Alcohol 43.1%
  - Tobacco 71.9%
  - Stimulants 6.8%
  - Cocaine 7.7%
  - Opioids 5.6%
- Non-cardholders were significantly more likely than Cardholders to screen positive for:
  - Alcohol (45.9% vs. 31.7%,  $c^2(1, N = 1470) = 18.81, p < .001)$
  - Tobacco (75.9% vs. 54.8%, c<sup>2</sup>(1, N = 1470) = 49.82, p < .001)</li>
  - Stimulants (7.6% vs. 3.6%,  $c^2(1, N = 1470) = 5.77, p < .05)$



### **Conclusions from data on use**

- Medical marijuana cardholders were more likely to be *at risk*, specifically moderate risk, likely due to **frequency** of use.
- Non-cardholders were more likely to screen at *higher risk* for **marijuana** and to screen positive for other substances.





New marijuana question: SBIRT Colorado - October 2013

"In the past year how many times have you used marijuana?"

# Any report of more than 1 time will be considered a 'positive' brief screen



### What we hear about marijuana...

- "It's legal- what's the big deal?"
- "It's all natural."
- "No one ever overdoses on marijuana."
- "It's safer for my lungs than cigarettes."



- "It's safer than narcotics for pain."
- "It treats many serious health problems."
- "It improves my sleep and anxiety, and helps me handle stress."
- "It makes me a safer driver...l drive slower."
- "It's not harmful."



### **Brief intervention: Priorities**

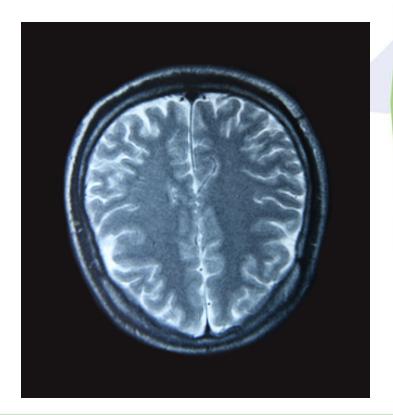
- Prevent use in adolescents and young adults
- Encourage abstinence (in most cases)
- Harm reduction when unwilling to abstain
- Further assessment and treatment for those with possible dependence
- Recovery support services





### **Prevention**

- Prevent diversion to youth
  - Effects of legalization on patterns of use in youth are not fully understood at this time
- De-normalize use in adolescents and young adults.
- Educate parents and youth:
  - Brain development
  - Short and longer-term memory impairment
  - Depression and other mental health concerns
  - Other health effects
  - *May* be associated with other substance use



### Safety and health concerns

- Accidental ingestion by children and pets
  - Discuss safeguarding and safe disposal
- Driving while under the influence
- Cardiovascular effects especially in those already at higher risk
- Mental health effects especially in those already at higher risk
- Fertility pregnancy- breastfeeding
- Cannabinoid Hyperemesis Syndrome







### **Medication interactions**

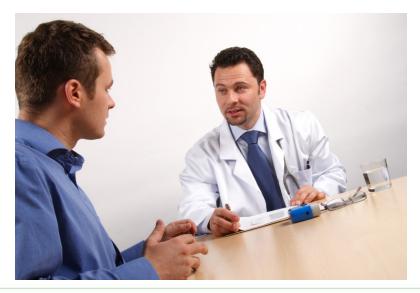
- Major:
  - Barbiturates (marijuana may potentiate)
  - CNS depressants (marijuana may potentiate)
  - Theophylline (marijuana may attenuate)
- Other possible interactions:
  - Fluoxetine (interaction may lead to hypomania)
  - Warfarin (marijuana may potentiate)





### **Brief intervention key points**

- Find out what the person knows and believes about marijuana. *Reflective listening*.
- Provide information about health and safety risks. Offer information and feedback with permission.
- Express concern about lack of standardized potency and dosing. Offer *information with permission*.
- Express concern about self-medicating to treat serious health conditions. *Offer advice with permission*.





### More on brief interventions

- Explore the relationship between marijuana and other substance use. Enhance motivation.
- Explore underlying stress, depression, anxiety and alternatives to managing. *Reflective listening to promote insight and explore options.*
- Explore other possible reasons to change marijuana use (e.g., cost, role model for kids). *Enhance motivation*.



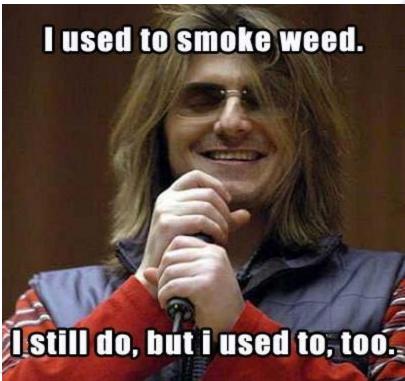


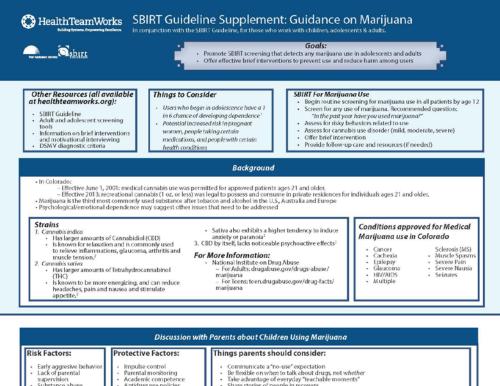


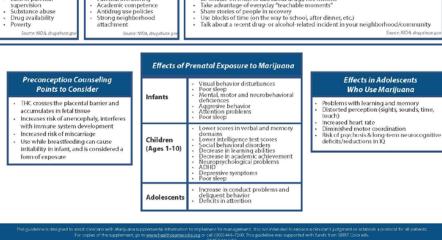


### **Benefits of cessation (or decreased use)**

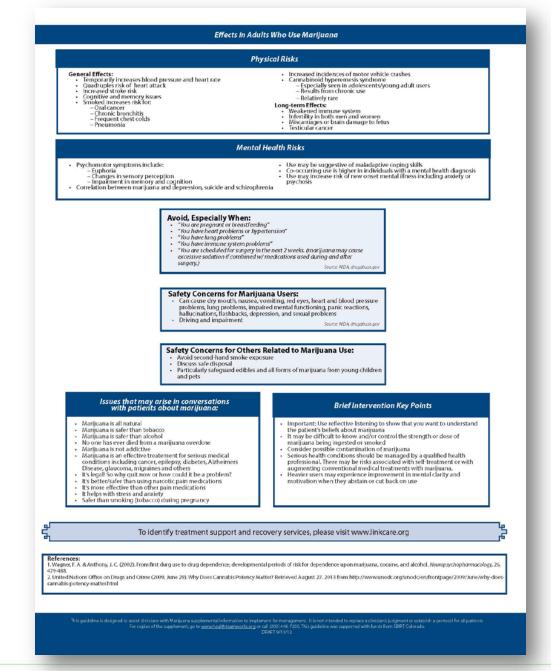
- Improved mental clarity
- Improved motivation
- Money saved
- Protect brain, heart, lungs, and other organs
- Decreased chance fertility problems
- Healthy pregnancy
- Safer breastfeeding
- A good role model for children













## Thank you very much!

## For more information: <u>cswenson@healthteamworks.org</u>

