



COMPASSIONATE MEDICINE  
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KY4MM

## Physicians could prescribe cannabis until 1937

- **1937 Marijuana Tax Act is passed**

- \* Dr. William Creighton Woodward<sup>2</sup>, legislative counsel for the American Medical Association, objected saying:

"Marijuana is not the correct term ... Yet the burden of this bill is placed heavily on the doctors and pharmacists of this country."

From 1850 to 1936, cannabis was used as the primary medicine for more than 100 separate illnesses and/or diseases in the U.S.



2. Dr. William Creighton Woodward

## Brief Historical Timeline of U.S. Marijuana Research

- **1944 La Guardia Committee**<sup>1</sup>
  - \* Marijuana not physically addictive
  - \* Not a gateway drug
  - \* Did not lead to crime
- **1970 Nixon creates Shafer Commission**<sup>2</sup>
  - \* Found cannabis as safe as alcohol
  - \* Recommended ending prohibition in favor of a public health approach
- **1988 DEA Chief Judge, Young**<sup>3</sup>
  - \* Ruled “marijuana, in its natural form, is one of the safest therapeutically active substances known to man... can be safely used within a supervised routine of medical care.”
- **1999 Institute of Medicine Report**<sup>4</sup>
  - \* Found marijuana had medical uses
  - \* Relatively low potential for abuse
  - \* Requested double blind, placebo controlled clinical trials
- **2009 American Medical Association**<sup>5</sup>
  - \* Recommended the DEA review Marijuana’s Schedule 1 status



1. La Guardia Committee

2. Shafer Report

3. Francis Young Library

4. Institute of Medicine Report

5. AMA Policy

## 2017 National Academies of Sciences<sup>1</sup>

### Formerly known as the Institute of Medicine (IOM)

Summarized the current state of evidence regarding what is known about the health impacts of cannabis

- Considered over 10,000 scientific studies
- Made nearly 100 conclusions
- **3 Conclusions were irrefutable**
  - \* Effective for the treatment of chronic pain in adults
  - \* Antiemetic in the treatment of chemotherapy-induced nausea & vomiting
  - \* Improved multiple sclerosis spasticity symptoms
- 18 years after the IOM report they are still requesting Clinical trials

### The Health Effects of Cannabis and Cannabinoids

THE CURRENT STATE OF EVIDENCE AND RECOMMENDATIONS FOR RESEARCH

Committee on the Health Effects of Marijuana: An Evidence Review and Research Agenda

Board on Population Health and Public Health Practice  
Health and Medicine Division

A Report of  
The National Academies of  
SCIENCES • ENGINEERING • MEDICINE





# U.S. Federal Patent

United States Patent 6,630,507 Hampson, et al. October 7, 2003

## **“ Cannabinoids as antioxidants and neuroprotectants ”**

The cannabinoids are found to have particular application as **neuroprotectants**, for example in limiting neurological damage following ischemic insults, such as **stroke** and trauma, or in the treatment of neurodegenerative diseases, such as Alzheimer's disease, **Parkinson's** disease and

**HIV dementia**

**\* Cannabinoids are compounds found within the cannabis plant**

## Cannabis Safety Rating

### 1997 - 2005 Study Compared Cannabis to 17 FDA Approved Drugs<sup>1</sup>

Including:

- Anti-spasmodics – 174 deaths
- Anti-emetics – 625 deaths
- Anti-psychotics – 2,295 deaths
- Other – 8,593 deaths
- \* Viagra – 2,294

F. TOTALS of A-E	Primary Suspect	Secondary Suspect (Contributing to death)	Total Deaths Reported 1/1/97 - 6/30/05
• TOTAL DEATHS FROM MARIJUANA	0	279	279
• TOTAL DEATHS FROM 17 FDA-APPROVED DRUGS	10,008	1,679	11,687

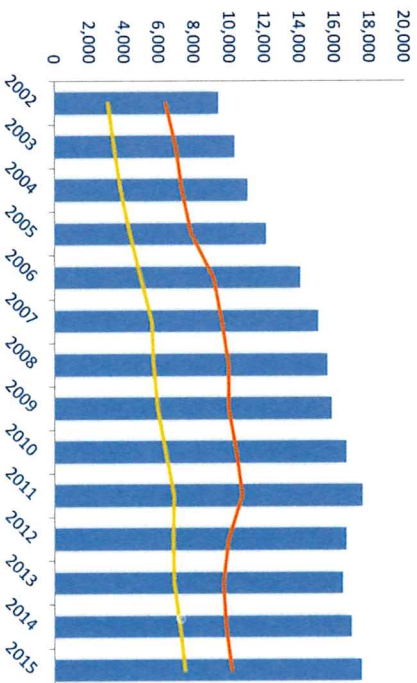
**FDA** data confirmed **0** deaths attributed to cannabis

# Opioid Drug Deaths in U.S.



Number of Deaths Involving Prescription Opioid Pain Relievers (excluding non-methadone synthetics)

**National Overdose Deaths**  
 ■ Total ■ Female ■ Male



Source: National Center for Health Statistics, CDC Wonder

## Nearly 64,000 opioid overdose deaths in 2016<sup>1</sup>

- More died from opioids than:
  - \* Motor vehicle accidents
  - \* Alcohol
  - \* Firearms
- On average 115 Americans die every day from opioid O.D.<sup>2</sup>
  - \* 1 death every 12 minutes

## 1419 Kentuckians passed away due to an overdose in 2016<sup>3</sup>

Nearly 4 people a day

<sup>1</sup> National Institute Drug Abuse      <sup>2</sup> Center Disease Control      <sup>3</sup> KY Injury Prevention & Research Center

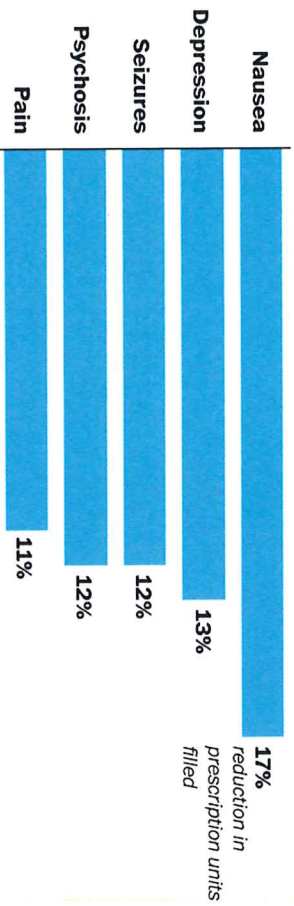


# Prescription Reduction with Medical Cannabis<sup>1</sup>

## University of Georgia Medicaid & Medicare D spending study

- 2010-2013 study in states with medical cannabis
- Overall reductions in Medicare part D spending estimated at \$165.2 million per year
- **11% reduction opioid medication prescriptions**
- **1826 fewer opioid prescriptions per physician**

Reduction in prescription units filled in medical marijuana states, by drug category.

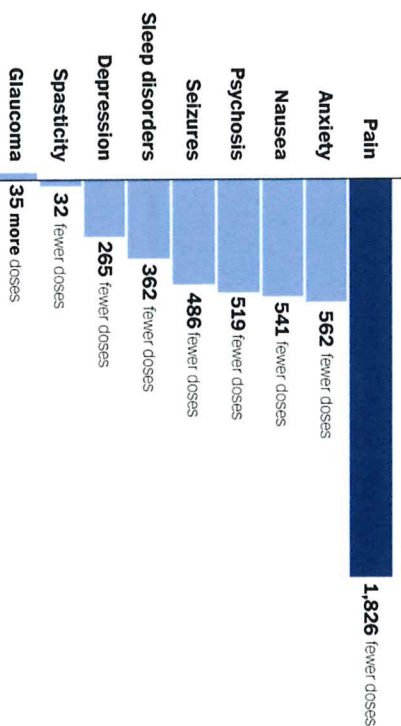


WAP0.ST/WONKBLOG

Source: Bradford and Bradford, Health Affairs, April 2017

## Fewer pills prescribed in medical pot states

Difference between annual drug doses prescribed per physician in medical marijuana states, and in states without medical marijuana laws, by drug category





## Opioid Over Dose Reduction In States With Medical Cannabis

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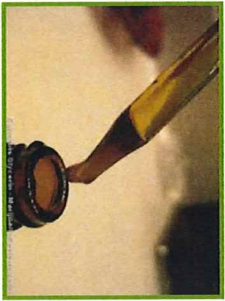
### 2014 JAMA article reported:

- Researchers looked at states with medical cannabis from 1999-2010
- Found **24.8% reduction in opioid overdoses** in states with medical marijuana legislation
- Strengthened over time
- Findings suggest that broader access facilitates substitution for powerful addictive opioids

# JAMA<sup>®</sup>

The Journal of the American Medical Association

# Ways to Consume Cannabis



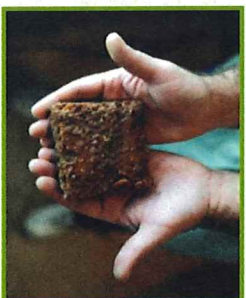
Tincture



Transdermal Patch



Flower



Edibles



Salves



Raw Juicing



Cannabis Oil aka Rick Simpson Oil (RSO)



Suppository

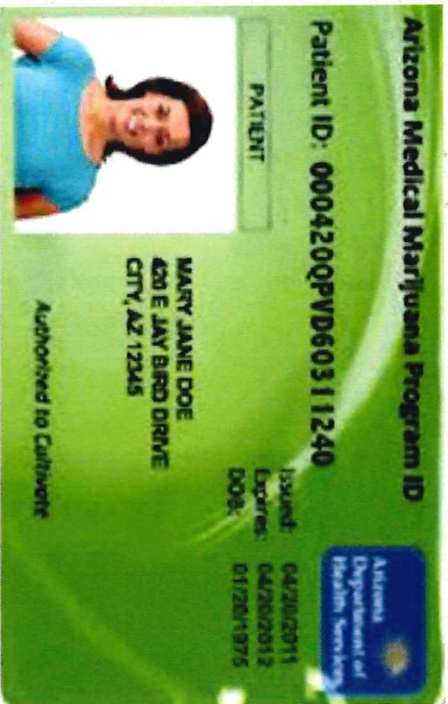
## Regulating Cannabis In Kentucky

- **Local opt in licensing for businesses**

- \* Those opting in are returned 20% of excise tax & license revenue to be used for:

1. **Hiring new drug recognition experts (DRE's)**

2. Local enforcement of the law



- Patients must have:

- \* Qualifying condition

- \* Qualifying practitioner

- \* State approval

- \* **Abide by rules & regulations or loose the freedom**

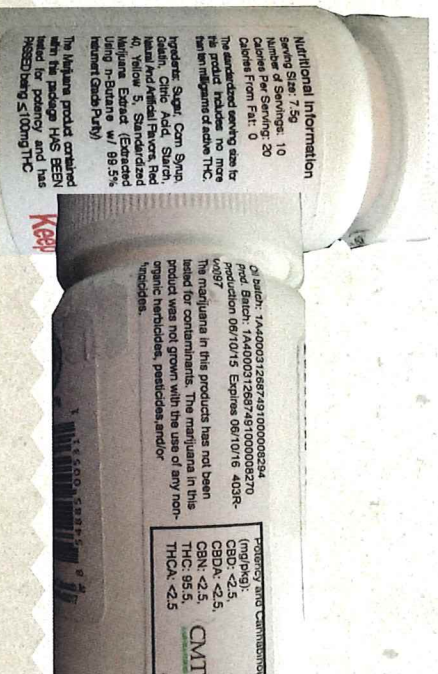


## Rules & Regulations

- Everyone in program must have State approved license
- No public consumption smoking or otherwise
- DWI/DUI remain prohibited
- No advertising (billboards, radio, or tv)
- KASPER like program Product inventory & monitoring
- No practitioner/dispensary relationships
- Cultivation must be in locked enclosed facility



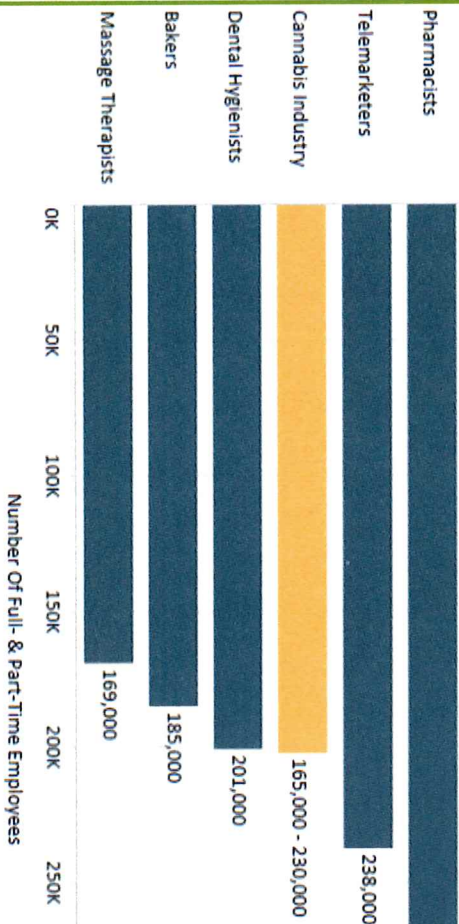
- 10mg per serving for oral consumption products
  - \* Must have state approved identifiable mark on product
  - \* Not resemble a recognizable product (gummy bear...)
  - \* Must be in childproof container
  - \* Sold in opaque containers



# Much Needed KY Jobs



## Number Of Employees: Cannabis Industry Compared To Mainstream Professions



Source: U.S. Bureau Of Labor Statistics Employment Projections: 2014-2024  
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Well paying jobs being created

More cannabis workers than dental hygienist

## Estimated salary ranges for cannabis jobs

Via HempStaff, a national marijuana industry recruiting firm based in Miami

Position	Job description	Salary estimate
Cultivation technician	Maintain, water and test plants	\$10 to \$15 an hour
"Budtender"	Help guide patients to strains	\$12 to \$15 an hour
Trimmer	Trims leaves and stems from the flower	\$150 to \$250 per pound trimmed, but full time could pay \$10 to \$12 an hour
Dispensary manager	Run the dispensary	\$40,000 to \$80,000 a year, depending on location, size
Master grower	Oversee growing and monitor harvest	\$70,000 to \$120,000 a year

Source: HempStaff

@ChITribGraphics



# Thank You

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