

# MEDICAL MARIJUANA IN POST-ACUTE AND LONG-TERM CARE

**Presented By:**  
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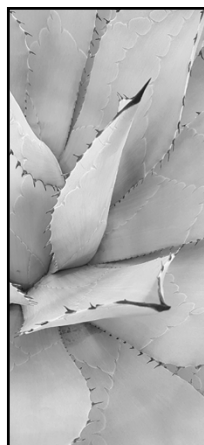
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## Objectives

- Understand the historical journey of medical marijuana and its legal turmoil.
- Review the pharmacology associated with marijuana/cannabis exposure
- Become familiar with the clinical significance of medical marijuana based on available evidence
- Describe the risks and benefits of acute and chronic marijuana exposure for the PA/LTC continuum
- Outline some of the "tough" situations that may arise in the PA/LTC setting

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## Question:

Which of the following Seven Dwarfs most likely has tried Medical Marijuana?

- A. Doc
- B. Happy
- C. Sleepy
- D. Dopey
- E. All of the above

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## Case Study



Mr. Milton is an 84 y/o male with prostate cancer and bone pain. Pain is uncontrolled, he is agitated throughout the day because he can't sleep at night. At home, his daughter was treating him with medical marijuana. How will you manage Mr. Milton's treatment plan?

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## Case Study

Things for you to think about:

- Does Mr. Milton qualify for Medical Marijuana
- How will you modify/create a treatment plan for Mr. Milton?
- What are the legal issues with providing care for Mr. Milton

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## History

- **2,737 BCE:** First recorded use of medical cannabis in China by Emperor Shen Neng
- **1840:** Cannabis medicine is available in the US
- **1842–1892:** Marijuana and Hashish extracts were the first, second, or third most prescribed drugs in the US
- **1936:** *Refer Madness* was created as a government tactic to misinform and scare citizens from cannabis
- **1964:** THC identified




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## Law: The Controlled Substances Act of 1970 (CSA)

Marijuana is labeled as a Schedule 1 drug with the following reasoning:

- High potential for abuse
- No accepted medical use
- Lack of acceptable safety for use under medical supervision

## Drug Scheduling Guide United States

<b>Schedule I</b>	<b>Most potential for abuse and dependence</b> <b>No medicinal qualities</b> Heroin, LSD, Marijuana, Ecstasy, Peyote
<b>Schedule II</b>	<b>High potential for abuse and dependence</b> <b>Some medicinal qualities</b> Vicodin, Cocaine, Bath Salts, Dicyclanil, Adderall
<b>Schedule III</b>	<b>Moderate potential for abuse/dependence</b> <b>Acceptable medicinal qualities</b> Prescription regulated – <b>fewest</b> refill regulations Tylenol with Codeine, Ketamine, Steroids, Testosterone
<b>Schedule IV</b>	<b>Low potential for abuse and dependence</b> <b>Acceptable medicinal qualities</b> Prescription regulated – <b>fewer</b> refill regulations Xanax, Darvon, Valium, Alprazolam, Ambien, Tramadol
<b>Schedule V</b>	<b>Lowest potential for abuse/dependence</b> <b>Acceptable medicinal qualities</b> Prescription regulated – <b>fewest</b> refill regulations Robax, AC, Lomotil, Miltivan, Lyrica

Source: [www.fda.gov/oc/ohrt/USDrugSchedulingOverview.pdf](http://www.fda.gov/oc/ohrt/USDrugSchedulingOverview.pdf)

Source: United States Drug Enforcement Agency.

## Law

- **1971:** Evidence that cannabis helps glaucoma arises; University of Mississippi gains federal approval to grow marijuana for use in DEA-approved medical research
- **1976:** FDA creates Investigational New Drug (IND) for Compassionate Use research program
- **1996:** California passes first medical cannabis bill
- **2014:** Rohrabacher-Farr (Blumenauer) Amendment – prohibits the use of federal funds in preventing states “from implementing their own State laws that authorize the use, distribution, possession or cultivation of medical marijuana” this does not change legal status

# 2018

- 29 states plus District of Columbia have some form of medical cannabis program; 9 allow "adult recreational use"
- Session's memo rescinds all previous guidance, says its okay to prosecute to the fullest extent of the law



Office of the Attorney General  
Washington, D. C. 20530  
January 4, 2018

January 4, 2018

MEMORANDUM FOR ALL UNITED STATES ATTORNEYS

FIGURE 1. Jeffrey B. Sessions, MD.

**SUBJECT:** Marijuana Enforcement

In the Controlled Substances Act, Congress has generally prohibited the cultivation, distribution, and possession of marijuana. 21 U.S.C. § 801 et seq. It has established significant penalties for these crimes. 21 U.S.C. § 841 et seq. These activities also may serve as the basis for the prosecution of other crimes, such as those prohibited by the money laundering statutes, the unlawful money transmitter statute, and the Bank Secrecy Act. 18 U.S.C. §§ 1956-57, 1960, 21 U.S.C. § 531B. These statutes reflect Congress's determination that marijuana is a

In deciding which marijuana activities to prosecute under these laws with the Department's finite resources, prosecutors should follow the well-established principles that govern all federal prosecutions. Attorney General Benjamin Civiletti originally set forth these principles in 1980, and they have been refined over time, as reflected in chapter 9-27.000 of the U.S. Attorney's Manual. These principles require federal prosecutors deciding which cases to prosecute to weigh all relevant considerations, including federal law enforcement priorities set by the Attorney General, the seriousness of the crime, the deterrent effect of criminal prosecution, and the cumulative impact of particular crimes on the community.

Given the Department's well-established general principles, previous nationwide guidance specific to marijuana enforcement is unnecessary and is rescinded, effective immediately.<sup>1</sup> This memorandum is intended solely as a guide to the exercise of investigative and prosecutorial discretion in accordance with all applicable laws, regulations, and appropriations. It is not intended to, does not, and may not be relied upon to create any rights, substantives or procedural, enforceable at law by any party in any manner civil or criminal.

<sup>1</sup>Previous positions include: David W. Ogden, Deputy Airy's Gen., Memorandum for Selected United States Agencies: Investigations and Prosecutions in States Authorizing the Medical Use of Marijuana (Feb. 19, 2009); James W. Cole, Deputy Airy's Gen., Memorandum for United States Attorney General Regarding the Ogden Issue in Jurisdictions Seeking to Authorize Marijuana for Medical Use (Jan. 29, 2011); James W. Cole, Deputy Airy's Gen., Memorandum for All United States Attorneys: Guidance Regarding Marijuana Enforcement (Aug. 28, 2013); James W. Cole, Deputy Airy's Gen., Memorandum for All United States Attorneys: Guidance Regarding Marijuana Related Criminal Issues (Jul. 14, 2014); and Maury Winkler, Director of the Executive Office for U.S. Attorneys, Roll Call: National Roundtable Marijuana Issue in *Indiana* 1 (March 20, 2014), <http://www.usdoj.gov/eo/attorneys/rollcall>.

## Florida

- Prior to 2014, any form was prohibited
- 2014-2016
  - SB 1030- Compassionate Medical Cannabis Acts of 2014
  - HB 307 (Medical cannabis)
- November 8, 2016
  - Amendment 2 SB 8-A: defined terms of medical marijuana (eligibility, qualifying conditions, production and dispensing)

## Colorado

- Decriminalized since 1975
- November 7, 2000
  - Amendment 20: approved for patients with written medical consent (no more than 2 ounces, 6 plants=3 flowering)
- November , 2012
  - Amendment 64: Recreational use for adults aged 21+

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## Describing Cannabis – Typology



- One single Polymorphic species (30-40 years old)

-Type I: high THC – most common in the world

-Type II: mixed THC/CBD – most common for medicinal purposes

-Type III: CBD predominant – European hemp

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## CBD – Pharmacology

- Inhibits uptake of anandamide and weakly inhibits its hydrolysis (Bisogno 2001) endogenous cannabinoids: this process is similar to SSRIs with serotonin
- Used for:
  - Anticonvulsant (Cunha: Jones 2010)
  - Alerting vs. Sedating (Nicholson 2004)
  - Anti-anxiety (Crippa 2010)
  - Cytotoxic in Breast cancer while being cytopreservative for normal cells (Ligresti 2006)
  - Antagonist of TNF- $\alpha$  (Inflammatory Bowel Syndromes, Rheumatoid Arthritis)
  - CVA reduction
  - Nausea
  - Improved cognition in hepatic encephalopathy (Magen 2009)
  - Stimulates bone fracture healing (Kogan 2015)

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## CBD – Misconceptions

Myth: A tiny amount is enough

Truth: More is better

Myth: It is a sedative

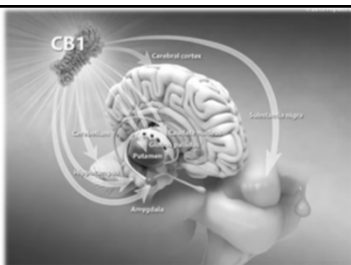
Truth: Studies show participants feel more alert

Myth: It turns into THC in the body (Merrick 2016)

Truth: Actually upregulates anandamide/Endocannabinoid system

## CB1 receptors in the Brain

- Highly expressed in nociceptive areas (pain centers)
- Cerebellum (muscular activity)
- Limbic system (emotion)
- Basal Ganglia (movement)
  - Reward Pathways (addictive centers i.e. drugs/sex/food)
  - Substantia nigra (reward and movement)
  - Periaqueductal gray matter (center to suppress pain)



### CB2 receptors in the Brain

- Mainly peripheral
- No "high"
- Treatment of fibrosis related conditions (hepatic fibrosis)
- Immunomodulatory receptor
  - Pain
  - inflammation
  - physiological defense

**Question:**

As of today, where can a patient with a certified condition, who is registered with the State of Florida Medical Marijuana Registry buy medical marijuana legally?

- A. Wal-Mart
- B. CVS
- C. State-licensed Medical Marijuana Dispensary
- D. Amazon
- E. All of the above

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**Medical Uses**

- 1) Legal THC/CBD (approved in 24 countries)
  - Sativex (Nabiximols)
    - First cannabis-based medicine to be licensed in the UK
    - Licensed for use in MS related spasticity
    - Oromucosal spray formulated from THC and CBD
    - Works on CB1 and CB2 receptors
    - Improved symptoms in 48% of clinical trial participants (Collin 2010)
  - Nabilone (Cesamet)
    - Synthetic cannabinoid
    - Antiemetic
    - Analgesic for neuropathic pain
    - In U.S. used for chemo-induced nausea/vomiting
    - Numerous trials and case studies demonstrate modest effectiveness for fibromyalgia and MS

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**Medical Uses**

- 1) Legal Oral THC
  - Dronabinol
    - Approved in 1985
    - Slow onset (60-120 min)
    - 95% of THC metabolized by liver on first pass to 11-OH- THC (more psychoactive)
    - Very expensive
    - Lacks synergistic components

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## Medical Uses

- 1) Legal CBD (Approved June 2018)
  - Epidiolex
    - FDA authorized, physician-sponsored expanded access program (EAP) initiated in early 2014
      - Children and young adults with multiple etiologies, all with treatment-resistant epilepsy
      - ~20 physician sites
      - Over 1100 patients approved
  - Reductions in both convulsive and total seizures (Warren 2017)

## Dosing

- Need and tolerance depends on prior patient experience with cannabinoids and underlying endocannabinoid tone
  - Receptors number and density
  - Concentration of anandamide

### Start low and go slow

- 2.5mg of THC is a threshold dose for most patients
- 5mg of THC is usually efficacious and tolerated
- 10mg of THC produces a strong effect in all except those with tolerance, may be too much for some
- >15-20mg/day before tolerance risks psychoactive and other adverse events

CMAJ 2008 Jun 17; 178(13): 1669-1678.  
doi: 10.1503/cmaj.071179

PMCID: PMC2413308  
PMID: 18558804

### Adverse effects of medical cannabinoids: a systematic review

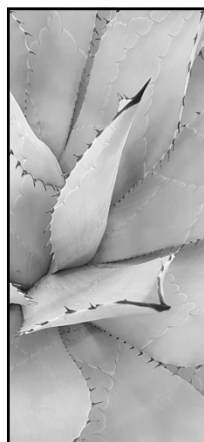
Tongtong Wang, MSc, Jean-Paul Collet, PhD MD, Stan Shapiro, PhD, and Mark A. Ware, MBBS MSc  
[Author information](#) • [Copyright and License information](#) • [Disclaimer](#)

**Table 4:** Frequency of nonserious adverse events reported in observational studies of medical cannabinoid preparations

System organ class*	No. (%) of nonserious adverse events n = 3553
Nervous system disorders	1412 (39.8)
Psychiatric disorders	1265 (35.6)
Gastrointestinal disorders	558 (15.7)
Vascular disorders	141 (4.0)
Cardiac disorders	107 (3.0)
General disorders and administration-site conditions	42 (1.2)
Investigations	13 (0.4)
Injury, poisoning and procedural complications	7 (0.2)
Eye disorders	6 (0.2)
Respiratory, thoracic and mediastinal disorders	2 (0.1)

\*Classified according to Medical Dictionary for Regulatory Activities.<sup>10</sup>





## Implications for Seniors and NHs

- Pain Control
- Reduced Polypharmacy
- Insomnia
- Anxiety
- Nausea and Vomiting
- Anorexia
- PTSD

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## Implications for Seniors and NHs

**KHN** Healthline News & Analysis

### Seniors Increasingly Getting High, Study Shows

Adults 65 and older are getting high in increasing numbers, affecting growing acceptance of the drug as treatment for various medical conditions, according to newly published findings by the Journal of the American Geriatrics Society.

The findings reveal overall use among the 65 and older study group increased "significantly" from 2006 to 2013. Marijuana was smoked between ages 40 to 49, then declined among the 65 and older group.

Men and women were equally likely to use marijuana, the study showed. But medical status and educational levels were not major factors in determining

J Am Geriatr Soc. 2014 May 60(5):859-863. doi: 10.1111/gps.12346. Epub 2014 Apr 15.

**Medical Marijuana Use in Older Adults.**  
Bruckner, J., Conant, C. J.  
© Author information

**Abstract**  
Symptom management in older adults, including pain and distressing non-pain symptoms, can be challenging. Medications can cause side effects that worsen quality of life or create other symptoms, and polypharmacy itself can be detrimental in older adults. Cannabinoids may offer a way of managing selected symptoms with fewer side effects. Medical marijuana is an important area of study for older adults because of the side effects of other medications. It is also important for Baby Boomers, who are likely to have more experience with marijuana than older adults of previous generations. Therefore, geriatricians should understand medical marijuana's clinical indications, adverse effects, and legal context. This article reviews the evidence regarding indications for and risks of medical marijuana use in older adults.

**KEYWORDS:** Marijuana; mental health; pain; palliative care

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## Implications for Seniors and NHs

**KHN** Healthline News & Analysis

### Agitation in Alzheimer Disease as a Qualifying Condition for Medical Marijuana in the United States.

Bruckner, J., Conant, C. J.  
© Author information

**Abstract**  
OBJECTIVE: To determine the extent to which states and territories include dementia as a qualifying condition for medical marijuana and how common this indication is.

**DESIGN:** The authors reviewed existing legislation and medical marijuana program websites and annual reports for the states and territories where medical marijuana is legal.

**RESULTS:** The authors found that states where medical marijuana is legal, dementia is a qualifying condition in 10 of 17 (71%) patients for agitation of Alzheimer disease. In the five states where information was available regarding qualifying conditions for certification, dementia was the indication for 40% of medical marijuana certifications.

**CONCLUSION:** Dementia is a common condition used as a potential qualifying condition for medical marijuana. Currently, the authors find that medical marijuana use for dementia is the reason for meeting certification. However, given increasing open attitudes toward medical and medical marijuana use, providers should be aware that dementia is a potential indication for licensing, despite lack of evidence for its efficacy. Copyright © 2014 Wolters Kluwer Health | Lippincott Williams & Wilkins.

**KEYWORDS:** agitation; dementia; health care; medical marijuana; neurodegenerative diseases

J Am Geriatr Soc. 2014 May 60(5):859-863. doi: 10.1111/gps.12346. Epub 2014 Apr 15.

**Safety and Efficacy of Medical Cannabis Oil for Behavioral and Psychological Symptoms of Dementia: An Open Label, Add-On, Pilot Study.**  
Bruckner, J., Conant, C. J., Conant, C. J., Conant, C. J.  
© Author information

**Abstract**  
**BACKGROUND:** Tetrahydrocannabinol (THC) is a potential treatment for Alzheimer's disease (AD).

**OBJECTIVE:** To measure efficacy and safety of medical cannabis oil (MCO) containing THC as an add-on to pharmacotherapy in relieving behavioral and psychological symptoms of dementia (BPSD).

**METHODS:** Sixteen AD patients were recruited to an open label, 4 weeks, prospective trial.

**RESULTS:** Ten patients completed the trial. Significant reduction in CDR severity score (5.6 to 3.7,  $p < 0.05$ ) and BPSD scores were recorded (4.4 to 3.2,  $p < 0.05$ ). BPSD domains of agitation, depression, delusions, apathy, aggression, irritability, anxiety, sleep and energy were reduced.

**CONCLUSION:** Adding MCO to AD patients' pharmacotherapy is safe and a promising treatment option.

**KEYWORDS:** Alzheimer's disease; behavioral and psychological symptoms of dementia; cannabis; tetrahydrocannabinol

J Am Geriatr Soc. 2014 May 60(5):859-863. doi: 10.1111/gps.12346. Epub 2014 Apr 15.

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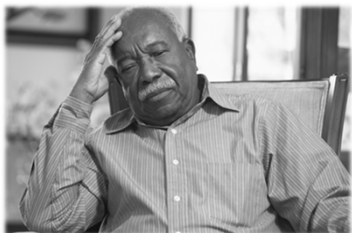
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**Case Study: Mr. Milton**


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**Challenges to Consider within your Facility:**

What does your state law permit?

Are your physicians qualified to prescribe/recommend?

Can nurses store on medical carts?

Can nurses administer and/or supervise?

How is usage documented?

Are there areas to "smoke" ?

What about transport between facilities? State lines?

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**Challenges to Consider within your Facility:**

Does your facility have a policy and procedure when marijuana is brought to the facility by a primary caregiver?

Does your facility store, access, dispense the medical marijuana? Who from your staff oversees this?

Is use of edibles limited to the resident's room? (Rights of roommate?)

Does the facility have access?

**What do we do with Mr. Milton?**

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## Challenges to Consider within your Facility:

### **The LTC Providers' Conundrum: Resident Rights vs. Federal Law**

- 1) 42 CFR 483.75(b) SNFs must comply with "Federal, State, and local laws and professional standards"
- 2) 42 CFR 483.10 Resident rights, including right of accommodation of needs, freedom of choice, and self-administration of medications

**How do we reconcile the disconnect?**

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## Challenges to Consider within your Facility:

The federal government considers marijuana a Schedule I controlled substance – possession is a crime

- All nursing facilities that participate in Medicare and Medicaid agree to comply with **ALL** federal, state and local laws




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## Hebrew Home




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## Legal Marijuana and Opioids

Working - Author

### Legal marijuana is saving lives in Colorado, study finds



Dr. Christopher Ingraham  
October 26, 2017

In Colorado, opioid deaths fell following medical marijuana legalization

Source: [New York Times](#)

Graphic: [The Atlantic](#)

After Colorado's legalization of recreational marijuana, opioid deaths fell in that state, according to new research published in the *American Journal of Public Health*.

Other Colorado's legalization of recreational marijuana also led to a 6% decrease in opioid deaths.

Decreased more than 6% in the following years, "note authors Melissa D. Loring, Tracy E. Barnett, Chris Delmon and Alexander C. Waggoner."

Graphic: [The Atlantic](#)

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Decrease in opioid prescriptions filled when a state instituted any medical marijuana law

May 2018

### Association Between US State Medical Cannabis Laws and Opioid Prescribing in the Medicare Part D Population

Ashley C. Bradford, BA<sup>1</sup>, W. David Bradford, PhD<sup>2</sup>, Amanda Abraham, PhD<sup>3</sup>, et al.

<sup>1</sup> Author Affiliations | <sup>2</sup> Article Information

JAMA Intern Med. 2018;178(5):667-672. doi:10.1001/jamainternmed.2018.0266

## Legal Marijuana and Opioids

### Medical Marijuana Laws Reduce Prescription Medication Use in Medicare Part D

- July 2016 issue of *Health Affairs*
- Researchers examined Part D claims data from CMS for 17 states in 2013 where medical marijuana was legal
- Use of opioids fell precipitously
- Part D saved \$165 million
- Presumably less opioid-dependency and overdose
- CMS saves \$\$\$, patients not dependent on opioids = win-win

- Source: Bradford A., Bradford W., *Medical Marijuana Laws Reduce Prescription Medication Use in Medicare Part D*, Health Aff, 5:7:1230-1236 (July 2016)

## Recommendations

- Consult State Health Department
- Consult competent legal counsel
- Review professional organization guidelines
- Develop and implement policies and procedures and REVISE PRN
- Adopt guidelines and REVISE PRN
- Compliance and Ethics programs/committees

## Recommendations

- Enroll in list serves
  - [Marijuanadoctors.com](http://Marijuanadoctors.com)
  - [Leafly.com](http://Leafly.com)
  - [Mpp.org](http://Mpp.org) (marijuana policy project)
  - [Norml.org](http://Norml.org) (organization working to reform marijuana policy)
  - [Icrs.co](http://Icrs.co) (international cannabinoid research society)
  - Medical Marijuana Use Registry (Florida Dept. of Health)

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