



## **STUDIES ON OPIATE USE AND MEDICAL MARIJUANA**

Links to the most recent papers/studies finding reduced levels of opioid use, abuse, and opiate-related mortality in jurisdictions with marijuana access as compared to those without:

### **Medical Marijuana Laws Reduce Prescription Medication Use In Medicare Part D**

<http://content.healthaffairs.org/content/35/7/1230.abstract>

### **Do Medical Marijuana Laws Reduce Addictions and Deaths Related to Pain Killers?**

<http://www.nber.org/papers/w21345>

### **Medical Cannabis Laws and Opioid Analgesic Overdose Mortality in the United States, 1999-2010**

<http://archinte.jamanetwork.com/article.aspx?articleid=1898878>

### **The opioid crisis in America's workforce**

<http://www.castlighthealth.com/typ/the-opioid-crisis/>

The most relevant studies finding that patients, particularly chronic pain patients, tend to substitute/reduce their opioid intake with cannabis:

### **Cannabis Use Is Associated With Decreased Opiate Medication Use in a Retrospective Cross-Sectional Survey of Patients With Chronic Pain**

<http://www.ncbi.nlm.nih.gov/pubmed/27001005>

### **The Effect of Medicinal Cannabis on Pain and Quality of Life Outcomes in Chronic Pain: A Prospective Open-label Study**

<http://www.ncbi.nlm.nih.gov/pubmed/26889611>

### **Substituting cannabis for prescription drugs, alcohol and other substances among medical cannabis patients: The impact of contextual factors**

<http://onlinelibrary.wiley.com/doi/10.1111/dar.12323/abstract>

**Medical Cannabis in Arizona: Patient Characteristics, Perceptions, and Impressions of Medical Cannabis Legalization**

<http://www.ncbi.nlm.nih.gov/pubmed/26317379>

**Profiles of medicinal cannabis patients attending compassion centers in Rhode Island**

<http://www.ncbi.nlm.nih.gov/pubmed/25715068>

**Who are medical marijuana patients? Population characteristics from nine California assessment clinics**

<http://www.ncbi.nlm.nih.gov/pubmed/21858958>

**Among veterans, opioid prescription requests down in step with rise in medical pot**

<http://www.theglobeandmail.com/news/national/among-veterans-opioid-prescription-requests-down-in-step-with-rise-in-medical-pot/article30285591/>

Relevant studies finding great adherence to treatment among opioid-dependent subjects who use cannabis/cannabinoids moderately as an exit drug:

**The effects of dronabinol during detoxification and the initiation of treatment with extended release naltrexone**

<http://www.ncbi.nlm.nih.gov/pubmed/26187456>

**Intermittent marijuana use is associated with improved retention in naltrexone treatment for opiate-dependence**

<http://www.ncbi.nlm.nih.gov/pubmed/19444734>

**CONCURRENT SUBSTANCE USE AND OUTCOME IN COMBINED BEHAVIORAL AND NALTREXONE THERAPY FOR OPIATE DEPENDENCE**

<http://www.tandfonline.com/doi/abs/10.1081/ada-100104511>

Submitted by:

Paul Armentano  
Deputy Director  
NORML | NORML Foundation  
[paul@norml.org](mailto:paul@norml.org)