



Medical Marijuana 411
Advanced Learning Management System

CANNABIS 101

Syllabus

MEDICAL MARIJUANA 411

CANNABIS 101 SYLLABUS

Module 1

An Ancient Plant for Modern Illnesses: A Short Version of the Long History of Cannabis as Medicine



OBJECTIVE: This module charts the development and spread of cannabis and its various uses as a fiber, as a food, and as a medicine as far back as 5000 years ago. Cannabis was an essential treatment for the ancient Chinese, the Indian Ayurvedics as well as the Victorians who adopted it into the Western Pharmacopoeia in the mid-1850s. It was used in Europe and North America as a household tonic until its prohibition in 1937 in the United States.

- a. Early History of Cannabis Use
- b. Cannabis in the West
- c. U.S. Prohibition
- d. The Medical Implications of U.S. Prohibition
- e. Medical Cannabis Today
- f. Hemp Vs. Cannabis

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Module 2

Legal Landscape - Federal Cannabis Laws and Regulations



OBJECTIVE: This introductory module is intended to enable physicians to better understand the legal terrain of medical cannabis. It provides clinicians with an overview from a legal perspective of relevant medical cannabis regulations.

- a. Overview of Cannabis Laws and Regulations
- b. Federal Law Primer and Outline

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Module 3

The Endocannabinoid System: The Largest Receptor System in the Human Body



OBJECTIVE: This module charts how the 1964 discovery of THC and CBD led to the 1988 discovery of the Endocannabinoid System (ECS), the largest receptor system and the master regulator of homeostasis in the human body. This module also discusses how and why cannabinoids (endogenous and external) interact with CB1 and CB2 receptors to treat a vast number of illnesses.

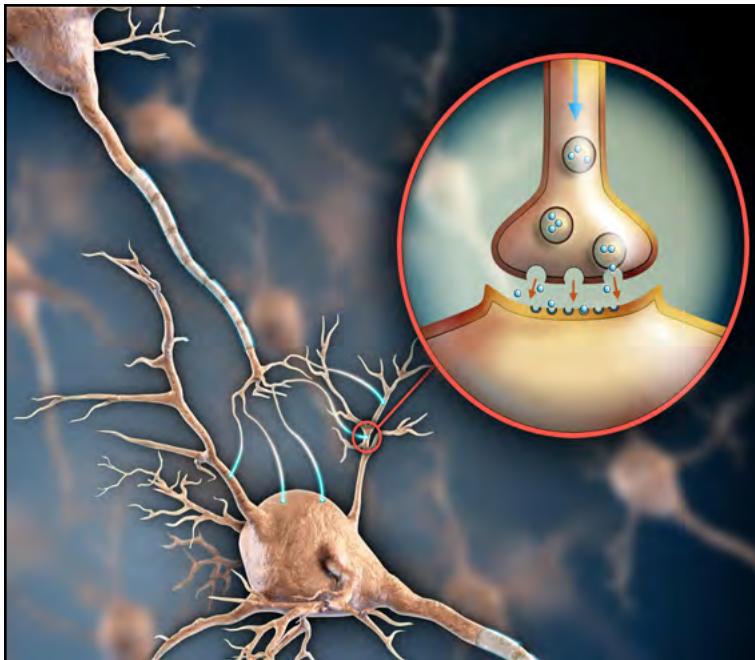
- a. Discovering the Endocannabinoid System
- b. The Endocannabinoid System:
The Body's Supercomputer
- c. Why the Endocannabinoid System isn't Taught
in Medical Schools

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Module 4

Cannabinoids, Terpenes and Opioids



OBJECTIVE: This module discusses the most prevalent "minor cannabinoids" that are produced by the plant. It also provides an overview to terpenes, the potent smell molecules that are thought to direct much of the high and the healing. Finally, it delves into the adverse reactions to cannabis, the entourage effect, cannabis tolerance and the ways cannabis can help to wean patients off addictive opioids.

- a. Minor Cannabinoids
 - i. CBG
 - ii. CBC
 - iii. CBN
- b. Terpenes
- c. The Entourage Effect
- d. Cannabis Tolerance
- e. Cannabinoids and Opioids

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Module 5 Clinical Practice



OBJECTIVE: Over a half dozen countries are planning to institute legal medical cannabis programs in 2018. This module provides an overview of some of the illnesses cannabis is being used to treat. They include certain cancers, anxiety, pain, epilepsy, insomnia, GI disorders, neurodegenerative illnesses, post traumatic stress, and migraines.

- a. Introduction
- b. Anxiety Disorders, Cancer and Epilepsy
- c. Gastrointestinal Disorders, Sleep Disorders and Migraine Headaches
- d. Neurodegenerative Disorders, Pain and Post Traumatic Stress Disorders

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Module 6

Delivery Systems



OBJECTIVE: This module familiarizes you with the many options that adults have to partake of cannabis. They include: smoking, vaporization, sublingual, edibles and topicals, plus the tools that deliver them. (Certain states/countries disallow certain products, but in the service of broad education, this course includes all of them). This section also includes guides to onset times and duration of effects.

- a. Inhalation: Smoking and Vaporization
- b. Inhalation: Joints, Pipes, Water Pipes and Bongs
- c. Edibles, Tinctures and Topicals

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Module 7

Dosing



OBJECTIVE: Most medical patients will be self-administering their medicine. This section will give you the information needed to help you make informed decisions about products and a basic understanding of how different products are dosed and the possible side effects.

- a. Dosing for inexperienced patients
- b. Getting Started
- c. Set and Setting
- d. Drug Interactions
- e. Biphasic Effect
- f. Basic Dosing Protocol
- g. Find Your CBD/THC Ratio
- h. Reading Product Labels
- i. A Final Note About Potency

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Module 8 Medical Myths and Facts



OBJECTIVE: The history of marijuana research and science is littered with many damning fictions masquerading as facts. Now that you're aware of the latest science and methodologies of administering medical cannabis it's important to review some of those myths to understand where they originated, how they've been perpetuated, and where the science-based truth lies.

- a. Myth 1: Cannabis is a gateway drug.
- b. Myth 2: Cannabis is highly addictive.
- c. Myth 3: Cannabis kills brain cells.
- d. Myth 4: Cannabis kills motivation.
- e. Myth 5: Cannabis impairs memory.
- f. Myth 6: Cannabis leads to insanity.
- g. Myth 7: Cannabis causes lung cancer.
- h. Myth 8: Most recreational users are heavy users.
- i. Myth 9: Cannabis is dangerous.

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Module 9 Additional Resources

- a. Peer Support Organizations
- b. Research Organizations
- c. Advocacy Organizations
- d. Multimedia & Other Resources
- e. Further Reading
- f. Key Words

