

Pharmacology of Cannabis and Physiologic Effects of Phytocannabinoids

Released: December 20, 2016

Expires: December 19, 2018

Estimated Time

The estimated time to complete this activity is 1.0 hour.

Jointly provided by

Postgraduate Institute for Medicine and the Society for Cannabis Clinicians

Description of Module

Reviews the pharmacology of cannabis, the pharmacodynamics that vary by method of administration, and the physiologic effects of cannabis in the body.

Target Audience

This activity has been designed to meet the educational needs of healthcare providers interested in the endocannabinoid system and the use of medicinal cannabis for patient treatment.

Educational Objectives

After completing in this activity, the learner should be better able to:

- Describe the physiologic effect of cannabis on body systems
- Explain the physiology of non-lethal side effects of cannabis
- Describe the pharmacokinetics of cannabis absorption, metabolism and clearance
- Explain the differences of absorption and metabolism with different methods of administration
- Recognize interactions of cannabis with prescribed medications

Faculty

Laura Borgelt, PharmD, FCCP, BCPS
Professor, University of Colorado Anschutz Medical Campus
Departments of Clinical Pharmacy and Family Medicine
Society of Cannabis Clinicians

Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Postgraduate Institute for Medicine and the Society of Cannabis Clinicians. The Postgraduate Institute for Medicine is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation

The Postgraduate Institute for Medicine designates this enduring material for a maximum of 1.0 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Statement from the AAFP: This Enduring Material activity, Clinical Cannabinoid Medicine Curriculum, has been reviewed and is acceptable for up to 1.00 Elective credit(s) by the American Academy of Family Physicians. AAFP certification begins 09/05/2017. Term of approval is for one year from this date. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclosure of Conflicts of Interest

Postgraduate Institute for Medicine (PIM) requires instructors, planners, managers and other individuals who are in a position to control the content of this activity to disclose any real or apparent conflict of interest (COI) they may have as related to the content of this activity. All identified COI are thoroughly vetted and resolved according to PIM policy. PIM is committed to providing its learners with high quality CME activities and related materials that promote improvements or quality in healthcare and not a specific proprietary business interest of a commercial interest.

The faculty reported the following financial relationships or relationships to products or devices they or their spouse/life partner have with commercial interests related to the content of this CME activity:

Name of Faculty or Presenter

Laura Borgelt, PharmD, FCCP, BCPS

Reported Financial Relationship

Dr. Borgelt reports no relevant financial relationships.

Dr. Borgelt will be discussing unapproved drugs and unapproved uses for drugs.

Dr. Borgelt has served as a member of five working groups:

- Colorado Department of Public Health and Environment: Amendment 64 (Marijuana Legalization) Task Force Working Group: Consumer Safety and Social Issues
- State Licensing Authority Labeling, Packaging, Product Safety and Marketing
- State Licensing Authority Medical and Retail Marijuana Mandatory Testing and Random Sampling
- State Licensing Authority Serving Size and Product Potency
- Colorado Department of Public Health and Environment Public Health Advisory

The following PIM planners and managers, Laura Excell, ND, NP, MS, MA, LPC, NCC, Trace Hutchison, PharmD, Samantha Mattiucci, PharmD, CCMEP, and Jan Schultz, MSN, RN, CCMEP, hereby state that they or their spouse/life partner do not have any financial relationships or relationships to products or devices with any commercial interest related to the content of this activity of any amount during the past 12 months.

Method of Participation and Request for Credit

To obtain credit, participants should view each page of the activity, answer the multiple-choice post-test questions, and complete the evaluation form online to receive a credit certificate. Your certificate will be available immediately for print or download upon completion of the entire activity. Make sure you have installed the newest version of Adobe Flash Player. You will also need to have javascript enabled on your browser to load the player. Get the latest Flash plugin [here](#). (See additional requirements below.)

Instructions for Obtaining Credit

After participating in the activity's content:

1. Complete the post-test questions as found in the content. You must receive a score of 75% or better to earn a certificate.
2. You will have an unlimited number of attempts to successfully complete the post-test.
3. Complete the Evaluation to rate the course and to record your participation.
4. Upon passing the post-test and completing the activity evaluation, your credit certificate will be available immediately to print for your records.
5. You may view or print your certificate at any time in the future.

Media Format(s)

Internet-based, Flash-based content with video/audio.

Software Requirements

1024 x 768 Minimum Monitor Resolution

Sound Card & Speakers or Headphones

Adobe Acrobat

Adobe Acrobat Reader (latest version) - Available for free at www.adobe.com/downloads

Flash

Flash Player 10 or later (<http://www.adobe.com/go/getflash>)

Browser Requirements

Internet Explorer 9 or higher

Firefox 23 or higher

Chrome 9 or higher

Safari 5.1 or higher

Opera 12 or higher

Javascript must be enabled (Need to enable JS in your browser: <http://www.enable-javascript.com>)

Contact Postgraduate Institute for Medicine

www.pimed.com

Disclosure of Unlabeled Use

This educational activity may contain discussion of published and/or investigational uses of agents that are not indicated by the FDA. The planners of this activity do not recommend the use of any agent outside of the labeled indications.

The opinions expressed in the educational activity are those of the faculty and do not necessarily represent the views of the planners. Please refer to the official prescribing information for each product for discussion of approved indications, contraindications, and warnings.

Disclaimer

Participants have an implied responsibility to use the newly acquired information to enhance patient outcomes and their own professional development. The information presented in this activity is not meant to serve as a guideline for patient management. Any procedures, medications, or other courses of diagnosis or treatment discussed or suggested in this activity should not be used by clinicians without evaluation of their patient's conditions and possible contraindications and/or dangers in use, review of any applicable manufacturer's product information, and comparison with recommendations of other authorities.