

COMMITTEE TO ASSESS THE AVAILABLE
SCIENTIFIC DATA REGARDING THE SAFETY AND
EFFECTIVENESS OF INGREDIENTS USED IN
COMPOUNDED TOPICAL PAIN CREAMS

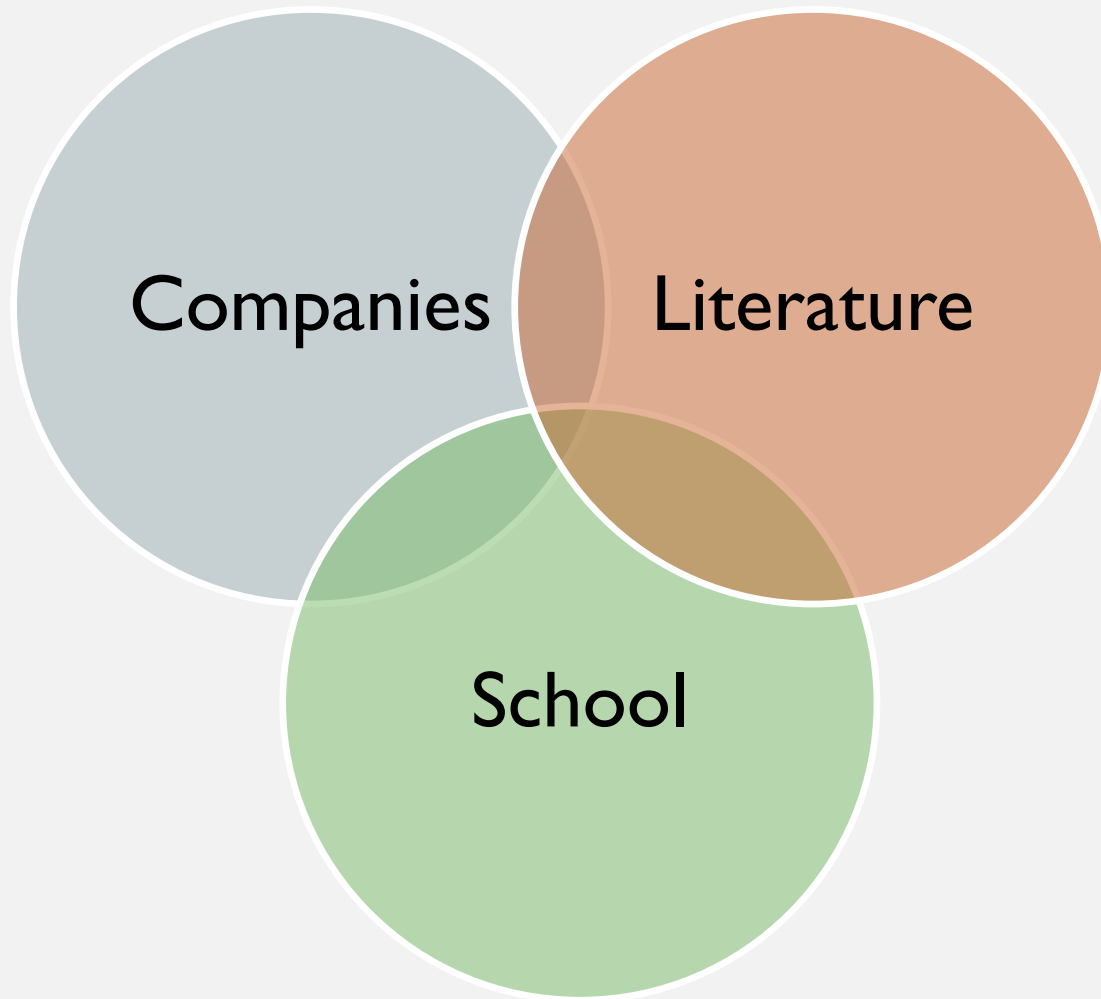
The National Academies of Sciences, Engineering, and Medicine

Health and Medicine Division

Board on Health Science Policy

May 20, 2019

WHAT'S HAPPENING



WHAT'S HAPPENING IN SCHOOLS

- *ACPE Accreditation Standards*
 - Pharmaceutical Sciences – Extemporaneous Compounding
 - Preparation of sterile and nonsterile prescriptions
 - Accuracy regarding drug product and dose
 - Free from contamination
 - Appropriately formulated for safe and effective patient use
 - Analysis of scientific principles and quality standards for compounding requirements

WHAT'S HAPPENING IN SCHOOLS

- *Assessment and Recommendations of Compounding Education in AACP Member Institutions*
 - Assessment of student works and techniques
 - *Direct feedback from faculty/TA (35.7%)*
 - *Practicum exam (16.7%)*
 - *Checklist (6.5%)*
 - Preparations evaluated by direct observation (33.5%)
 - Preparations evaluation by quantitative analysis (13.8%)
 - *8% used the analysis to assess the preparations*

WHAT'S HAPPENING IN SCHOOLS

	Required Course	Elective Course
Alcohol soluble gels	37	11
Water soluble gels	50	9
Ointment by incorporating an ingredient	78	1
Ointment by forming the base around an ingredient	55	4
PLO emulsion	48	10

N = 137

WHAT'S HAPPENING IN SCHOOLS

- Compounding of creams/ointments
- Might use a topical pain cream as example preparation
- Some have students conduct “basic” API and excipient information research for example preparations
- Some have the topic covered in elective course or a module in a pharmacotherapy course
 - Not specific to topical creams

WHAT'S HAPPENING IN COMPANIES

Pain Management Compounding Course

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and start earning \$250 SPI scholarships!

An Accredited CE Activity (1.475 CEUs) designed for Pharmacists and Pharmacy Technicians

Summary

Pain is one of the most common reasons patients seek medical attention and one of the most difficult to objectively evaluate. Not only does pain impact the daily living of the affected person, but ineffective pain management leads to annual business productivity losses of ~\$300 billion in the United States.* This 2-day course highlights the definition, mechanism and classification of pain; followed by appropriate treatment considerations involving novel treatment approaches, proper dosing, API selection and formulation. The laboratory hands-on application focuses on enhancing the participant's technique in properly formulating and preparing compounded pain preparations.

*(<http://www.painmed.org/patientcenter/cost-of-pain-to-businesses/>)

In Spectrum Pharmacy Institute's state-of-the-art compounding laboratory, attendees will:

- Demonstrate their ability to compound topical and transdermal pain formulas
- Show how to work with state-of-the-art equipment to prepare an elegant compound
- Perform calculation double-checks to ensure accuracy of compounded formulations
- Explain how to properly document a compounding record for each formulation
- Recognize safety precautions required in handling APIs used in pain preparations

Upon completion of this activity, participants should be better able to:

- Explain the effects of dietary supplements and nutrition on inflammation and how they complement the treatment of pain
- Describe mechanisms of pain and the challenges of neuropathic pain
- Apply knowledge about the science of pain to assess and manage pain
- Discuss the niche of pain management and market opportunities in the everchanging insurance reimbursement climate
- Identify and diagnose pain patterns from muscle and fascia and causes of chronic pain
- Evaluate the benefits of topical pain compounds and the MOA of the drugs utilized
- Outline a pain management plan that includes both pharmacologic and nonpharmacologic multi-faceted approaches
- Review pharmacologic benefits of opioids in the treatment of acute and chronic pain
- Classify the roles of the various health care professionals in pain management
- Review scientific research on the medicinal use of cannabis, the federal and state laws governing its use, as well as patients' rights
- Demonstrate proficiency in preparing commonly prescribed compounded pain management dosage forms

Training Location:

Spectrum Pharmacy Institute
777 Jersey Avenue

Training Dates:

September 13-14, 2018
February 21-22, 2019

Instructed by:

Scott Karolchyk, MS, RPh, FIACP, DNM

Agenda and Registration:

[View Agenda Here »](#)
[Register Here »](#)



HRT, Autoimmune and Pain Symposium

June 20-22 | Toronto, Ontario

Join PCCA in Toronto, ON for a 2.5 day event focusing on HRT, Autoimmune Diseases, and Pain Management, June 20-22, 2019.

PCCA is back in Toronto to bring you an impressive series of presenters and presentations!. In this exclusive 2.5 day symposium, listen to experts discuss such topics as: Heart Health: The Importance of Hormone Balance for Men and Women, Introduction to Gut Health and Autoimmunity, Oxytocin Therapy and how it may benefit your patients, Why Your Patients Can't Lose Weight, The Pathophysiology of Pain, as well as Formulations Used for Specific Pain Conditions, and much more.

Reasons to Attend:

- Pharmacists and Practitioners seeking the **newest and most current information** (cutting edge options to support patients) respective to HRT, Autoimmune Diseases, and Pain Management
- Learn from and meet the Experts - PCCA will be introducing a **new speaker to the Canadian market** - Dr. Lindsey Berkson, DC, MA, CNS, DACBN, CAN
- Connect with your peers - collaborate, and network with your peers over the course of 2.5 days
- Demonstrate to your patients/clients that you are **committed to continuing your pharmacy education** - CEs will be applied for
- find out who will be the recipient of **PCCA Canada's 2019 Canadian Compounding Pharmacist of the Year**

ESSENTIAL ELEMENTS OF PERSONALIZED ANALGESIC MEDICATIONS

“This activity aims to provide pharmacists, physicians, naturopathic doctors, and other healthcare providers with the foundational knowledge needed to effectively address pain management. Participants will revisit, in detail, the pathophysiological processes of pain, better equipping themselves with the tools needed to identify and diagnose different types of pain. From here, participants will review clinical and peer-reviewed research supporting alternative solutions that reduce side effects and enhance therapeutic benefit. Particular emphasis will be placed on evidence supporting topical analgesic therapy as an efficacious and well-tolerated option for pain management with potentially significant implications in reducing oral opioid consumption. Participants will be encouraged to utilize this evidence to effectively target and develop customized treatment regimens for a variety of pain conditions, including:”

- Piriformis Syndrome
- Low Back Pain
- Laser Scar Removal
- Pediatric Tonsilectomy
- Headaches
- Complex Regional Pain Syndrome
- Phantom Limb Pain



WHAT'S PUBLISHED IN THE LITERATURE

- Stability of preparations
- Formulas of preparations
- Featured articles in IJPC

THANK YOU