Pharmacology and Therapeutics of Local Anesthesia: An Overview & Update (4 hrs)

**Course Description**
Due to their potential for producing life-threatening systemic adverse reactions, a thorough knowledge of the pharmacological and clinical properties of local anesthetic agents is essential for their safe and effective use. This program will provide participants with an overview of the pharmacology and therapeutics of local anesthetic agents.

**Course Outline**
I. Local Anesthesia Pharmacology Basics
   - A. Neuroanatomy
   - B. Neurophysiology
   - C. Biochemistry and Mechanism of Action
II. Review of Intralocal Anesthetic Preparations
   - A. Local Anesthetic Agents for Injection
   - B. Local Anesthetic Agents for Topical Use
   - C. Vasoconstrictors
III. Patient Care Considerations
   - A. Medical History Review
   - B. Physical Evaluation
   - C. Significant Drug Interactions
   - D. Absolute Contraindications
   - E. Relative Contraindications
   - F. Considerations with Epinephrine
IV. Patient Management
   - A. The Medically Complex Dental Patient
   - B. Treatment Modifications
   - C. Patient Care Planning

**Learning Objectives**
Upon successful completion of this program, participants will be able to:
• Explain the basic concepts of neurophysiology and nerve conduction and the mechanism of action of local anesthetic agents
• Differentiate between the two major classes of local anesthetic agents with respect to their distribution, manner of absorption, and duration of action
• Discuss the rationale for the use of vasoconstrictors in local anesthetic solutions and their potential effects in common organ system disease states
• Specify the various local anesthetic agent combinations most commonly used in dentistry and the rationale for their use in specific clinical situations
• Discuss the significant adverse effects, contraindications, and patient care considerations with the use of local anesthetics.

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**REGISTRATION FORM**
Cost: $395 for Dentists / $185 for RDHs and Aux. / U.S. Funds
Deadline: Late fee of $145 will be added after April 15, 2019.

**Confirmations & Hotel Directions**
Confirmations will be mailed to the address below:
2. DDS  DMD  RDH  EFDA  RDA  CDA  Off. Adm. Email
1. DDS  DMD  RDH  EFDA  RDA  CDA  Off. Adm. Email

**Confirm Out Date:**
Confirmations & Hotel Directions will be mailed 10 business days prior to the seminar.

**Registration Form**
Cost: $395 for Dentists / $185 for RDHs and Aux. / U.S. Funds
Deadline: Late fee of $145 will be added after April 15, 2019.

**Refunds/Cancellation Dates:**
Please refer to the Agenda for more information. Please note that all cancellations must be received in writing or email by the last business day prior to the seminar. Cancellations will be accepted up to 10 days prior to the seminar.

**Compliance Information:**
All participants must sign the attendance form at the end of each session to receive CE credit.

**Telephone:**
(603) 736-9200 • Fax: (603) 736-9208

**Payment Options:**
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**Pharmaceutical and Therapeutics of Local Anesthesia: An Overview & Update (4 hrs)**

**Course Description**
According to the DEA, cannabis remains a Schedule I substance. As such, it is considered to have no accepted medical use and, thus, is illegal to possess. Yet, the United States has seen a broad-based trend toward state-level decriminalization of cannabis, with almost every state enacting legislation aimed at legalizing and/or decriminalizing cannabis for medical and/or recreational usage. Notwithstanding this rise in social and legal acceptance, public health concerns regarding the use of cannabis remain, especially among dental professionals, since the major routes of administration of cannabis involve the oral cavity. This program will introduce dental professionals to the most current information regarding the pharmacology of cannabis, including its various dosage forms, routes of administration and adverse effects. Special emphasis will be placed on the effects of cannabis use on oral health and dental treatment, as well as the proposed use of cannabis in dentistry for the management of patient anxiety and odontogenic pain.

**Course Outline**
V. Cannabis Basics
   - A. History
   - B. Types of cannabis
   - C. Legal Status
   - D. Proposed Uses in Dentistry
VI. Clinical Pharmacology
   - A. Mechanism of Action
   - B. Drug-Receptor Activity
   - C. Endocannabinoids
   - D. Routes of Administration
   - E. Available Formulations
VII. Pharmacologic Effects
   - A. CNS Effects
   - B. Respiratory Effects
   - C. Gastrointestinal Effects
   - D. Immunological Effects
   - E. Effects on Other Organ Systems
VIII. Clinical Indications
   - A. Adverse Reactions
   - B. Interactions with Medications
   - C. Interactions with Dietary Supplements
   - D. Contraindications
IX. Dental Considerations
   - A. Effects on the Oral Cavity
   - B. Effects on Dental Treatment
   - C. Treatment Modifications
   - D. Patient Care Planning

**Learning Objectives**
Upon successful completion of this program, participants will be able to:
• Discuss the history and various types of cannabis, as well as its current legal status and proposed uses in dentistry
• Examine the pharmacology of cannabis, including its mechanism of action, routes of administration and available dosage forms.
• Identify the pharmacologic effects of cannabis on major organ systems.
• Discuss the clinical considerations of cannabis use, including adverse reactions, drug interactions and contraindications
• Discuss the dental considerations of cannabis, including effects on dental treatment, potential treatment modifications, and patient care planning.