

MASTER SYLLABUS

COURSE NO., HOURS, AND TITLE: DH 340–3 Dental Pharmacology and Pain Control

INSTRUCTOR:

TBD

INSTRUCTOR CONTACT INFORMATION:

Telephone: TBD

E-mail: TBD

Office Location: TBD

Office Hours: TBD

COURSE DESCRIPTION:

This course is designed to teach the student about different drugs used in dentistry, the biochemical activity of each, appropriate use, interactions with other drugs or systemic conditions, and some basic pharmacology terminology. Pharmacotherapeutics will be presented to the dental hygiene student in a meaningful, practical manner. Emphasis will be placed on clinical efforts, dosages, adverse effects, and contraindications of drugs commonly prescribed in dentistry or which patients may be taking under direction of other health care providers or under self-direction. Information will be presented from a perspective to include pharmacological basis for drugs, the need for and use of a medical history, and legal aspects related to these subjects.

Prerequisites: DH 212, DH 220

PREREQUISITE TO: DH 355

COURSE OBJECTIVES:

Upon completion of this course, the student will be able to:

1. Discuss the history of anesthesia.
 2. Demonstrate a thorough understanding of pain and its control.
 3. Discuss the modalities of pain and mechanism of controlling it.
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1. Describe components of a prescription and basic pharmacological terminology.
 2. Demonstrate how to use pertinent reference books and computer reference programs such as *Physician's Desk Reference*.

3. Obtain good medical histories (including current drug therapies) and identify information on them that is directly related to dental care that may alter dental treatment, that is indicative of the patient's oral health, and that may be identified as of concern to the health care provider.
4. Describe dosages, indications, and contraindications of a limited number of therapeutic agents frequently used in dentistry.
5. Describe some commonly used medications and how they may alter dental care.
6. Describe indications, contraindications, and adverse reactions of a limited number of therapeutic agents frequently used in medicine.
7. Describe the pharmacokinetics of drugs commonly used in dentistry such as analgesics, anesthetics, antibiotics, and anxiolytic agents.
8. Discuss the chemotherapeutic management of oral conditions.
9. Describe dental and medical emergency situations and the drugs used in their management.

TOPICAL OUTLINE:

| Topics | Percentages of Time |
|---------------------------------|----------------------------|
| I. General Principles | 120% |
| A. Introduction | |
| B. Drug Action and Handling | |
| C. Adverse Reactions | |
| D. Prescription Writing | |
| II. Drugs Used in Dentistry 37% | |
| A. Autonomic Drugs | |
| B. Nonopioid Analgesics | |
| C. Opioid Analgesics | |
| D. Antiinfective Agents | |
| E. Local Anesthetics | |
| F. Antianxiety Agents | |
| G. General Anesthetics | |
| H. Fluorides | |
| I. Vitamins and Minerals | |
| J. Oral Conditions | |

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| III. | Drugs That May Alter Dental Treatment | 37 | % |
| | A. Cardiovascular Drugs | | |
| | B. Anticonvulsants | | |
| | C. Anticonvulsants | | |
| | D. Psychotherapeutic Agents | | |
| | E. Autacoids and Antihistamines | | |
| | F. Adrenocorticosteroids | | |
| | G. Other Hormones | | |
| | H. Antineoplastic Drugs | | |
| | I. Respiratory and GI Drugs | | |
| IV. | Special Situations | 6 | % |
| | A. Emergency Drugs | | |
| | B. Pregnancy and Breastfeeding | | |
| | C. Drug Interactions | | |
| | D. Drug Abuse | | |
| | E. Herbal | | |

Textbook Required:

Weinberg, M.A., Westphal Theile, C., Fine, J.B. (2013). Oral Pharmacology for the Dental Hygienist, 2nd Ed. Prentice Hall

